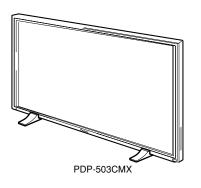
Pioneer sound.vision.soul

Service Manual



ORDER NO. **ARP3150**

PLASMA DISPLAY

PDP-503CMX PDP-503MXE

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-503CMX	LUCB	AC100 - 120V	
PDP-503MXE	YVLDK	AC100 - 240V	

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The main parts having their serial numbers described in the table below are applicable to this service manual. For details on replacing with the following parts, refer to Service Information for each part.

	Part numbers and serial numbers of the main parts applicable to this service manual					
Model Name	SW POWER SUPPLY MODULE	REAR CASE	RGB ASSY	DIGITAL VIDEO ASSY	X DRIVE ASSY	Y DRIVE ASSY
	(AXY1059)	(ANE1610)	(AWZ6744)	(AWV1979)	(AWV1984)	(AWZ6745)
PDP-503CMX/ LUCB	0008541 -	0010261 -	0010891 -	0013473 -	0013671 -	0013671 -
PDP-503MXE/YVLDK	0005421 -	0005991 -	0000641 -	0007451 -	0007611 -	0007611 -





For details, refer to "Important symbols for good services".

SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

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(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully. Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- · When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

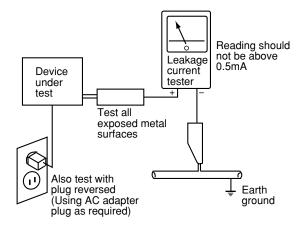
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■ Charged Section

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The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the SW POWER SUPPLY Module)
- 5. STB Transformer and Converter Transformer (In the SW POWER SUPPLY Module)
- 6. Other primary side of the SW POWER SUPPLY Module

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. SW POWER SUPPLY Module	(225V)
2. X DRIVE Assy	(-300V to 225V)
3. Y DRIVE Assy	(355V)
4. SCAN (A) Assy	(355V)
5. SCAN (B) Assy	(355V)
6. X CONNECTOR (A) Assy	(-300V to 225V)
7. X CONNECTOR (B) Assy	(-300V to 225V)

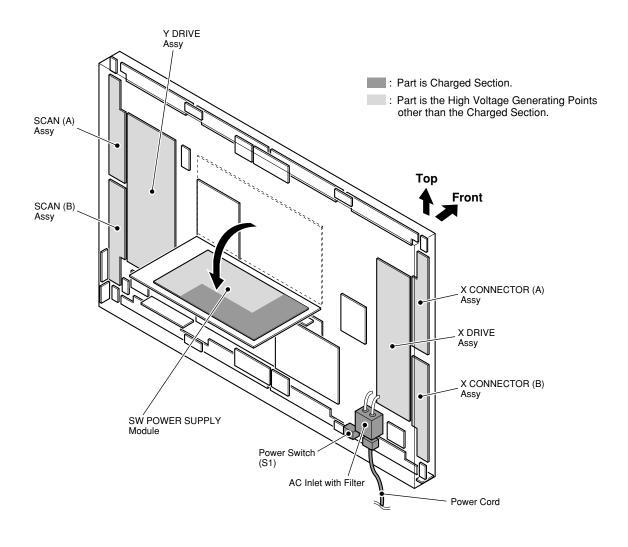


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

PDP-503CMX

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[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



5

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

PLASMA DISPLAY (PDP-503CMX, PDP-503MXE)

General
Light emission panel 50 inch plasma display panel
Number of pixels 1280 x 768
Power supply AC 100 - 120 V, 50/60 Hz (PDP-503CMX)
Power supply AC 100 - 240 V, 50/60 Hz (PDP-503MXE)
Rated current 3.8 A - 3.1A (PDP-503CMX)
Rated current 3.8 A - 1.6A (PDP-503MXE)
Standby power consumption 1 W
External dimension1218 (W) x 714 (H) x 98 (D) mm
47-31/32 (W) x 28-1/8 (H) x 3-7/8 (D) in.
(including display stand)
47-31/32 (W) x 29-1/32 (H) x 11-13/16 (D) in.
Weight
(including display stand) 39.5 kg (87 lbs. 1 oz)

Input/output Video

INPUT 1

[Input]

Mini D-sub 15 pin (socket connector) RGB signal (G ON SYNC compatible) RGB ... 0.7 Vp-p/75 Ω /no sync. HD/CS, VD ... TTL level /positive and negative polarity $/2.2 k\Omega$

G ON SYNC

... 1 Vp-p/75 Ω /negative sync. *Compatible with Microsoft's Plug & Play (VESA DDC1/2B)

Output

Mini D-sub 15 pin (socket connector) 75 Ω /with buffer

INPUT 2

(Input)

BNC jack (x5) RGB signal (G ON SYNC compatible) RGB ... 0.7 Vp-p/75 Ω /no sync. HD/CS, VD ... TTL level

/positive and negative polarity/

 $75~\Omega$ or 2.2 $k\Omega$ (impedance switch) G ON SYNC ...

1 Vp-p/75 Ω /negative sync.

Audio

AUDIO INPUT (for INPUT 1/2) Input

Stereo mini jack

L/R ... 500mVrms/more than 10 $k\Omega$

Output **AUDIO OUTPUT**

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Stereo mini jack

L/R ... 500mVrms (max)/less than 5 k Ω

SPEAKER

L/R ... 8 – 16 Ω /2W +2W (at 8 Ω)

Control

RS-232C	D-sub 9 pin (pin connector)
COMBINATION IN/OUT	Mini DIN 6 pin (x2)
CONTROL IN/OUT	monaural mini jack (y2)

Accessories

	1 (PDP-503CMX Only)
Remote control unit	1
Remote control unit holder	
AA (R6) batteries	2
Cleaning cloth	
	2
	2
Warranty	1 (PDP-503CMX Only)
	2
	2
	2
CD-ROM (information files)	1
	(PDP-503MXE Only)
	(PDP-503MXE Only)

Due to improvements, specifications and design are subject to change without notice.

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Accessories

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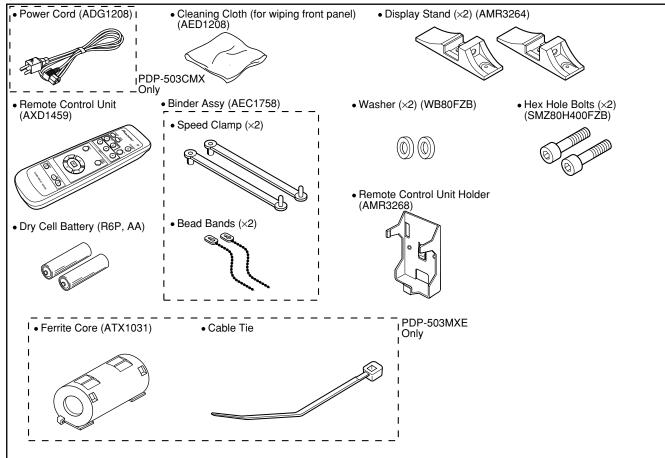
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2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The

 ↑ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ullet Screws adjacent to lacktriangle mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

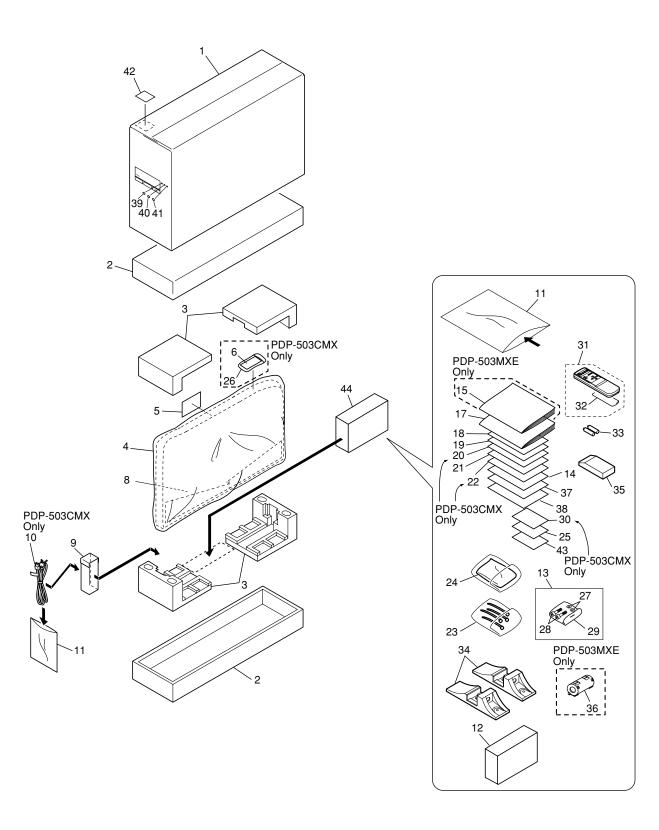
2.1 PACKING

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PDP-503CMX

PACKING parts Lis

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Upper Carton	See Contrast table (2)	23	Binder Assy	AEC1758
2	Under Carton	AHD3037		(Speed Clamp x 2, Bead Band	x 2)
3	Pad	AHA2280	24	Cleaning Cloth	AED1208
4	Mirror Mat	AHG1284		(for Wiping Front Panel)	
5	Caution Sheet	ARM1201	NSP 25	Warranty Card	See Contrast table (2)
NSP 6	Warranty Card	See Contrast table (2)	NSP 26	Vinyl Pouch	See Contrast table (2)
7	••••		27	Washer	WB80FZB
8	Front Sheet	AHB1241	28	Hex Hole Bolt	SMZ80H400FZB
9	Cord Case	AHC1037	29	Vinyl Bag	AHG-1330
10	Power Cord	See Contrast table (2)	30	Caution Sheet	AEM1203
11	Vinyl Bag	See Contrast table (2)	31	Remote Control Unit	AXD1459
12	Accessory Case	AHC1040	32	Battery Cover	AZN2462
13	Screw Set	AXX1060	NSP 33	Dry Cell Battery (R6P, AA)	VEM1031
14	SP Spacer	AEC1925	34	Display Stand	AMR3264
15	Operating Instructions	See Contrast table (2)	35	Remote Control Unit Holder	AMR3268
	(Spanish/ Italian/ Dutch)		00	5 " O	0 0 1 11 (0)
			36	Ferrite Core	See Contrast table (2)
16	••••		37	SP Caution Sheet	ARM1219
17	OPerating Instructions	See Contrast table (2)	38	Image Caution Sheet	ARM1220
	(Japanese/ English/ French)		39	Label (BLUE)	AAX2787
18	Caution Sheet	ARM1200	40	Label (SILVER)	AAX2817
19	Caution Sheet	ARM1221		(005551)	111/0050
20	Plasma Caution Sheet	See Contrast table (2)	41	Label (GREEN)	AAX2956
			42	Label (GUARANTY)	See Contrast table (2)
21	Plasma Caution Sheet	See Contrast table (2)	43	Plasma Caution Sheet	ARM1149
22	Caution Sheet	See Contrast table (2)	44	Accessory Assy	See Contrast table (2)

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 $\begin{tabular}{ll} \textbf{(2) CONTRAST TABLE} \\ \textbf{PDP-503CMX/LUCB and PDP-503MXE/YVLDK are constructed the same except for the following:} \\ \end{tabular}$

Mark	No.	Symbol and Description	PDP-503CMX/ LUCB	PDP-503MXE/ YVLDK
	1	Upper Carton	AHD3094	AHD3097
NSP	6	Warranty Card	ARY1093	Not used
<u> </u>	10	Power Cord	ADG1208	Not used
	11	Vinyl Bag	AHG1310	AHG-064
	15	Operating Instructions (Spanish/Italian/Dutch)	Not used	ARC1510
	17	Operating Instructions (Japanese/ English/ French)	ARD1052	Not used
	17	Operating Instructions (English/ French/ German)	Not used	ARE1365
	20	Plasma Caution Sheet	ARM1145	Not used
	21	Plasma Caution Sheet	ARM1147	ARM1149
	22	Caution Sheet	ARM1176	Not used
NSP	25	Warranty Card	ARY1102	Not used
NSP	26	Vinyl Pouch	AHG-195	Not used
	36	Ferrite Core	Not used	ATX1031
	42	Label (GUARANTY)	AAX2911	Not used
NSP	44	Accessory Assy	AAX1058	AAX1059

2.2 UNDER LAYER SECTION (1)

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Refer to next page. 10 Upper side 10 11 11

UNDER LAYER SECTION (1) parts List

		-	· ·			
	Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
	1	CLAMP A Assy	AWZ6738	10	Locking Card Spacer	AEC1736
_	2	CLAMP B Assy	AWZ6739			
	3	CLAMP C Assy	AWZ6740	11	Screw	ABA1301
	4	CLAMP D Assy	AWZ6741	12	V Cushion	AED1205
	5	Service Panel Assy	AWU1068			
F	6	Wire Saddle	AEC1904			
	7	Circuit Board Spacer	AEC1872			
	8	Circuit Board Spacer	AEC1873			
	NSP 9	PCB Spacer	AEC1121			
	12		PDF	2-503CMX		
		1 =	2		3	4

Service Panel Assy (AWU1068) is all common use parts of for business, public use and module. Supply it by the state that installed Circuit Board Spacer (AEC1872) and Wire Saddle (AEC1878)as follows. Therefore need to remove it in accordance with model.

Confirm character carved a seal near the parts, and remove it.

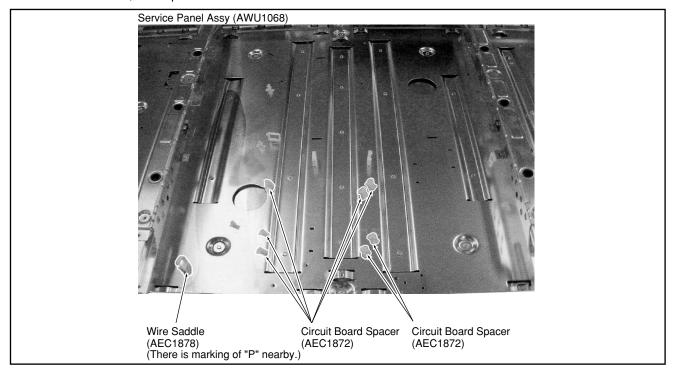
P : Public exclusive use W : Module exclusive use

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PW: Common use of public use and module

* In case of this unit, all the parts carved a seal of character removes it.



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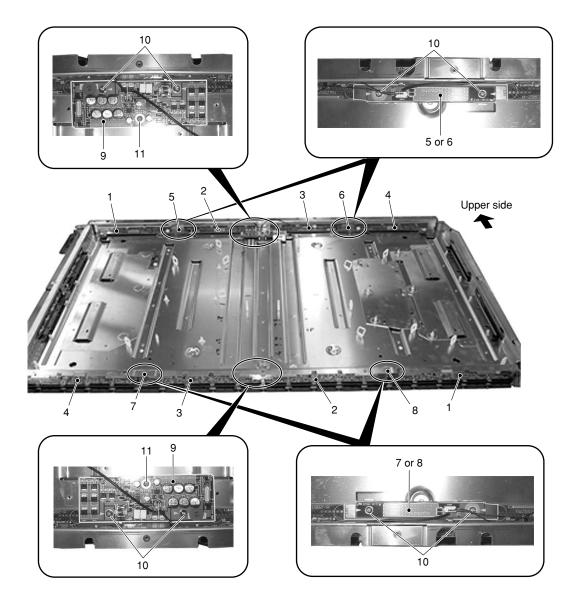
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2.3 UNDER LAYER SECTION (2)



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UNDER LAYER SECTION (2) parts List

Mark No.	Description	Part No.
NSP 1	ADR CONNECT A Assy	AWZ6626
NSP 2	ADR CONNECT B Assy	AWZ6627
NSP 3	ADR CONNECT C Assy	AWZ6628
NSP 4	ADR CONNECT D Assy	AWZ6629
5	BRIDGE A Assy	AWZ6734
6	BRIDGE B Assy	AWZ6735
7	BRIDGE C Assy	AWZ6736
8	BRIDGE D Assy	AWZ6737
9	ADR RESONANCE Assy	AWZ6750
10	Screw	ABA1301
11	Screw	VBB30P100FNI

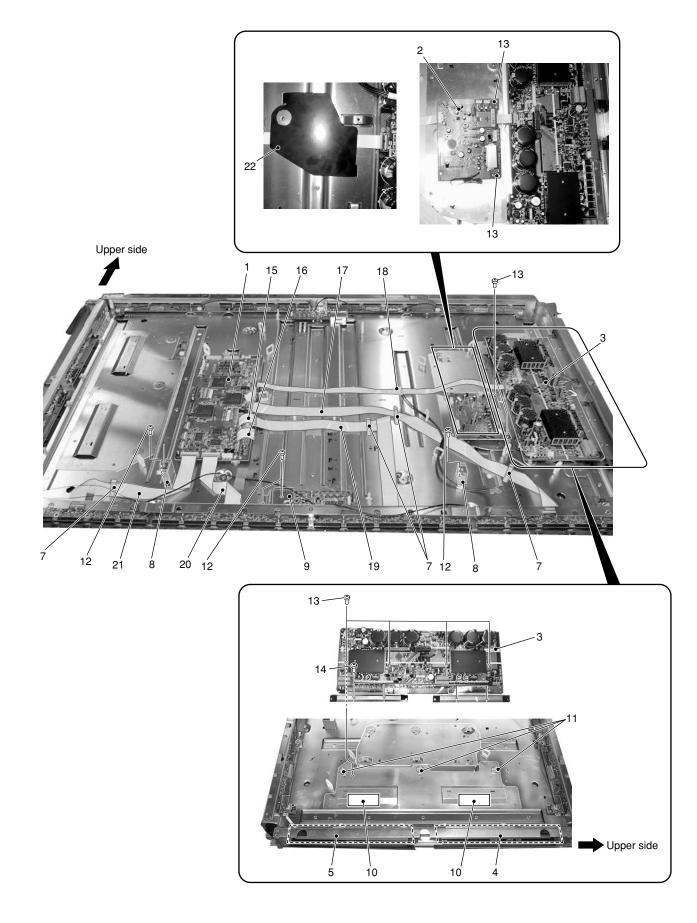
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2.4 UNDER LAYER SECTION (3)



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UNDER LAYER SECTION (3) parts List

Mark No.	<u>Description</u>	Part No.	
1	DIGITAL VIDEO Assy	AWV1979	
2	MX AUDIO Assy	AWZ6644	
3	X DRIVE Assy	AWV1984	
4	X CONNECTOR (A) Assy	AWZ6732	
5	X CONNECTOR (B) Assy	AWZ6733	
6	••••		
7	Flat Clamp	AEC1879	
NSP 8	Metal Fittings	ANG2464	
NSP 9	· ·	ANH1594	
10	Coil Silicone Sheet	AEH1048	
11	Circuit Board Spacer	AEC1872	
12	Screw	ABZ30P060FMC	
13		VBB30P100FNI	
	Screw	PMB30P060FNI	
15	J201 Flexible Flat Cable	ADD1183	
13	3201 Flexible Flat Cable	וטטא	
16	J202 Flexible Flat Cable	ADD1183	
17	J209 Flexible Flat Cable	ADD1191	
18	J204 Flexible Flat Cable	ADD1196	
19	J210 Flexible Flat Cable	ADD1190	
20	J211 Flexible Flat Cable	ADD1186	
21	J212 Flexible Flat Cable	ADD1188	
22	Audio Sheet	AMR3305	

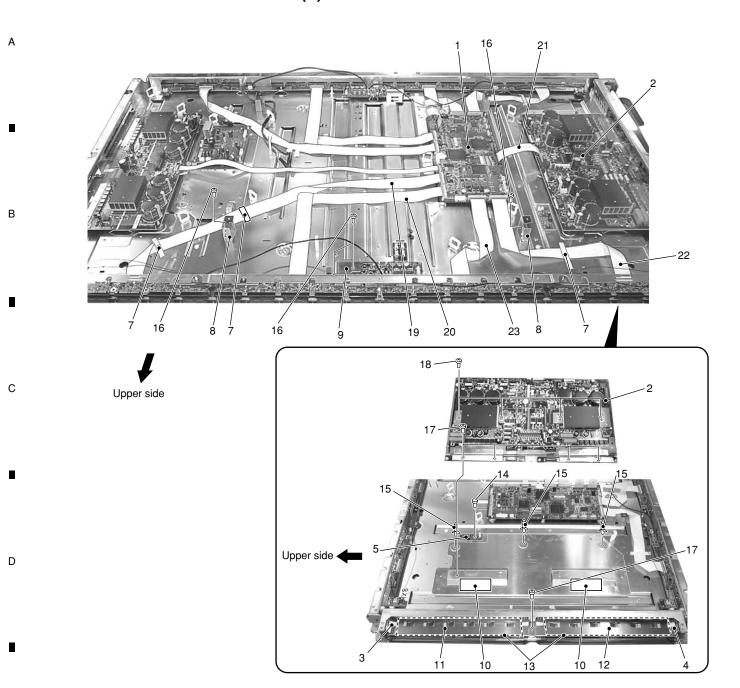
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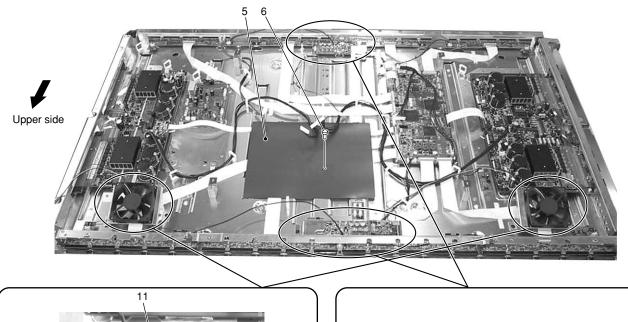
2.5 UNDER LAYER SECTION (4)

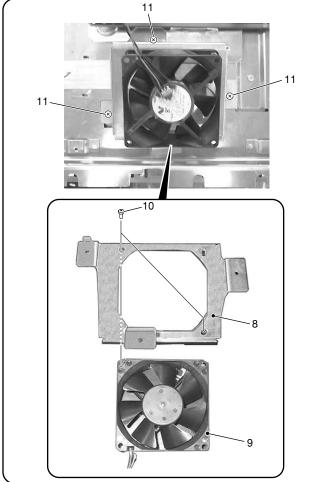


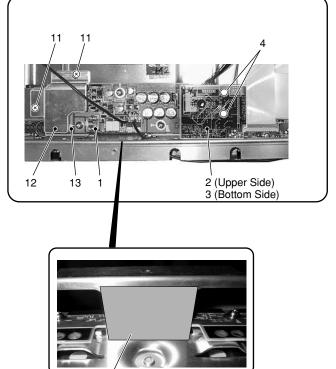
UNDER LAYER SECTION (4) parts List

Е	Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
	1	DIGITAL VIDEO Assy	AWV1979	13	Scan Insulation Sheet	AMR3271
	2	Y DRIVE Assy	AWZ6745	14	Rivet	BEC1066
	3	SCAN (A) Assy	AWZ6722	15	Circuit Board Spacer	AEC1872
	4	SCAN (B) Assy	AWZ6723			
_	5	SENSOR Assy	AWZ6696	16	Screw	ABZ30P060FMC
		•		17	Screw	PMB30P060FNI
	6	••••		18	Screw	VBB30P100FNI
	7	Flat Clamp	AEC1879	19	J208 Flexible Flat Cable	ADD1191
	NSP 8	Metal Fittings	ANG2464	20	J207 Flexible Flat Cable	ADD1190
	NSP 9	Heat Sink	ANH1594			
F	10	Coil Silicone Sheet	AEH1048	21	J203 Flexible Flat Cable	ADD1184
•				22	J205 Flexible Flat Cable	ADD1189
	11	Scan IC Spring (L)	ABK1026	23	J206 Flexible Flat Cable	ADD1187
	12	Scan IC Spring (R)	ABK1027			
	18		PI	DP-503CMX		
		1 -	2		3	4

2.6 UNDER LAYER SECTION (5)







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UNDER LAYER SECTION (5) parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	ADR RESONANCE Assy	AWZ6750	NSP 8	Fan Metal	ANG2465
2	SUB ADDRESS A Assy	AWZ6689	9	Fan Motor	AXM1040
3	SUB ADDRESS B Assy	AWZ6690	10	Screw	PPZ50P100FZK
4	Circuit Board Spacer	AEC1873			
5	Power Sheet	AMR3291	11	Screw	ABZ30P060FMC
			NSP 12	Heatsink	ANH1594
6	Rivet	BEC1066	13	Silicone Sheet	AEH1039
7	••••		14	Insulating Sheet	AMR3343

2.7 UNDER LAYER SECTION (6)

MIDDLE LAYER SECTION (1) parts List

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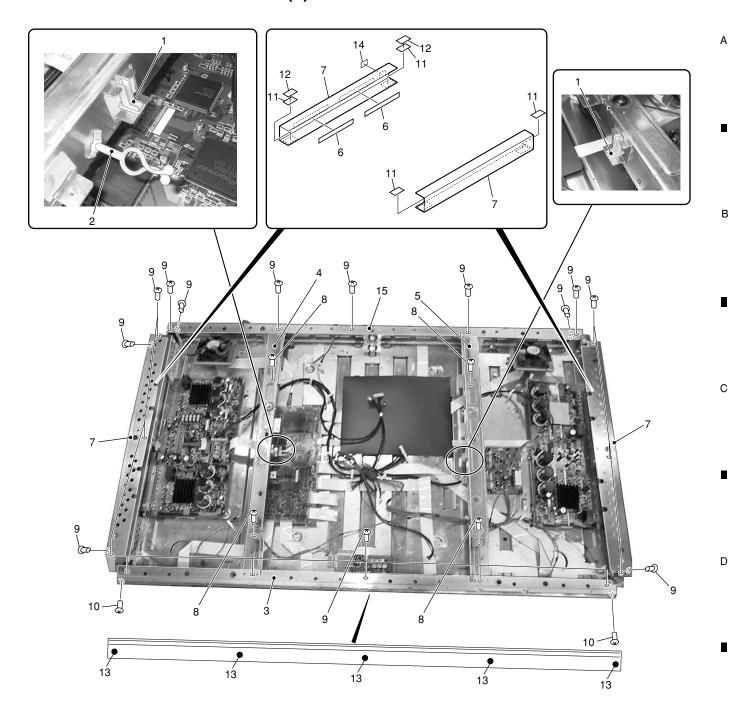
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	Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
_	NSP 1	ADR CONNECT A Assy	AWZ6626	19	X DRIVE Assy	AWV1984
	NSP 2	ADR CONNECT B Assy	AWZ6627	20	MX AUDIO Assy	AWZ6644
	NSP 3	ADR CONNECT C Assy	AWZ6628			
	NSP 4	ADR CONNECT D Assy	AWZ6629	21	••••	
	5	ADR RESONANCE Assy	AWZ6750	22	Flat Clamp	AEC1879
		·		23	J115 3P Housing Wire	ADX2705
Е	6	BRIDGE A Assy	AWZ6734	24	J110 3P Housing Wire	ADX2704
_	7	BRIDGE B Assy	AWZ6735	25	J108 8P Housing Wire	ADX2811
	8	BRIDGE C Assy	AWZ6736			
	9	BRIDGE D Assy	AWZ6737	26	J101 Wire F	ADX2695
	10	SUB ADDRESS A Assy	AWZ6689	27	J102 Wire E	ADX2782
		•		28	J103 13P Housing Wire	ADX2700
	11	SUB ADDRESS B Assy	AWZ6690	29	J116 4P Housing SP Wire	ADX2756
	12	SCAN (A) Assy	AWZ6722	30	J109 Wire G	ADX2696
	13	SCAN (B) Assy	AWZ6723			
	14	Y DRIVE Assy	AWZ6745	31	J111 Wire I	ADX2698
	15	DIGITAL VIDEO Assy	AWV1979	32	J104 Wire H	ADX2697
_		•		33	J117 4P Housing SP Wire	ADX2756
F	16	SENSOR Assy	AWZ6696	34	Binder	AEC-093
	17	X CONNECTOR (A) Assy	AWZ6732	35	J118 5P Housing Wire	ADX2776
	18	X CONNECTOR (B) Assy	AWZ6733			
	20			PDP-503CMX		
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2.8 MIDDLE LAYER SECTION (1)



MIDDLE LAYER SECTION (2) parts List

Mark No.		Part No.	Mark No.	<u>Description</u>	Part No.
1	Card Corner Holder	BEC1144	11	V Cushion	AED1205
2	Niplocker	BEC1136	12	Gasket R	ANK1695
NSP 3	Front Chassis H	ANA1683	NSP 13	Spacer	AEC1902
4	Sub Frame L	ANG2455	14	Seet C	AEC1927
5	Sub Frame R	ANG2456	NSP 15	Front Chassis HU	ANA1697
6	FPC Cushion	AEB1370			
NSP 7	Front Chassis V	ANA1661			
8	Screw	AMZ30P060FZK			
9	Screw	ABA1294			
10	Screw	BMZ30P060FMC			

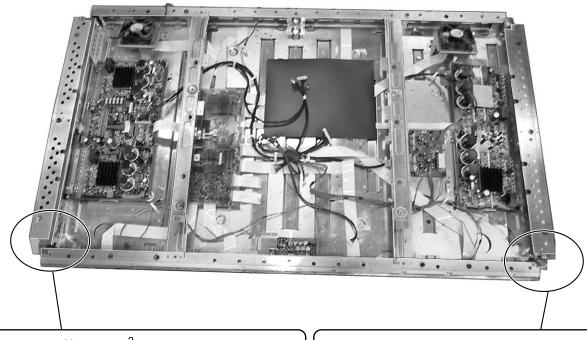
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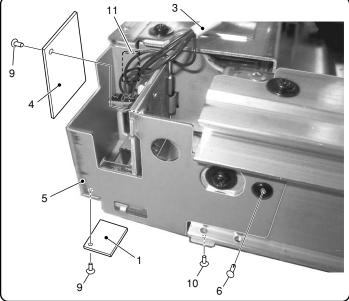
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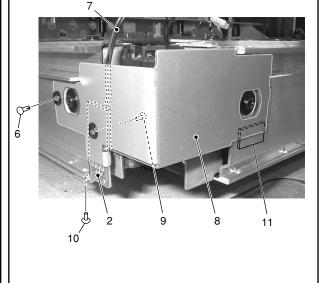
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2.9 MIDDLE LAYER SECTION (2)







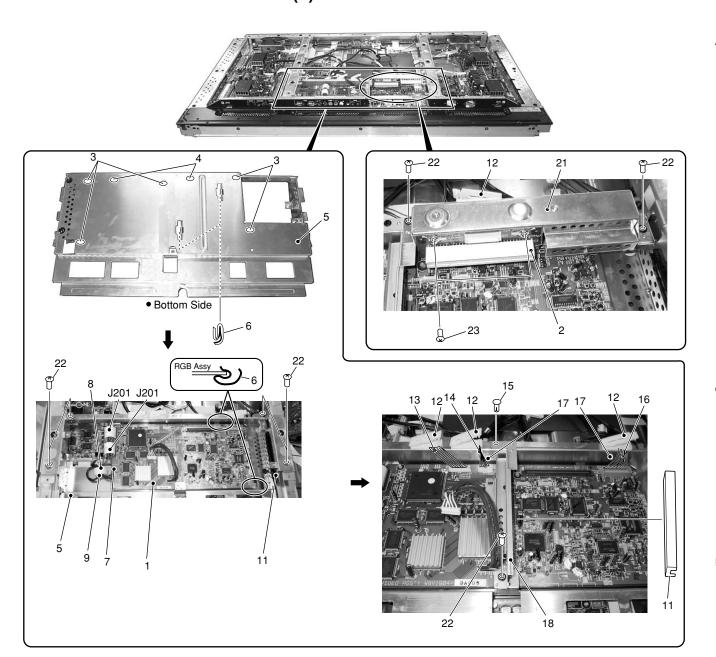
MIDDLE LAYER SECTION (2) parts List

E	Mark No.	<u>Description</u>	Part No.
	1	IR Assy	AWZ6643
	2	MX LED Assy	AWZ6642
	3	J113 Wire J	ADX2699
	4	KEY CONNECTOR Assy	AWZ6695
	NSP 5	IR Holder	ANG2494
	6	Nyron Rivet	AEC1671
	7	J111 Wire I	ADX2698
	NSP 8	Switch Holder	ANG2493
	9	Screw	BMZ30P040FMC
F	10	Screw	ABZ30P050FZK
	11	Gasket R	ANK1695

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2.10 MIDDLE LAYER SECTION (3)



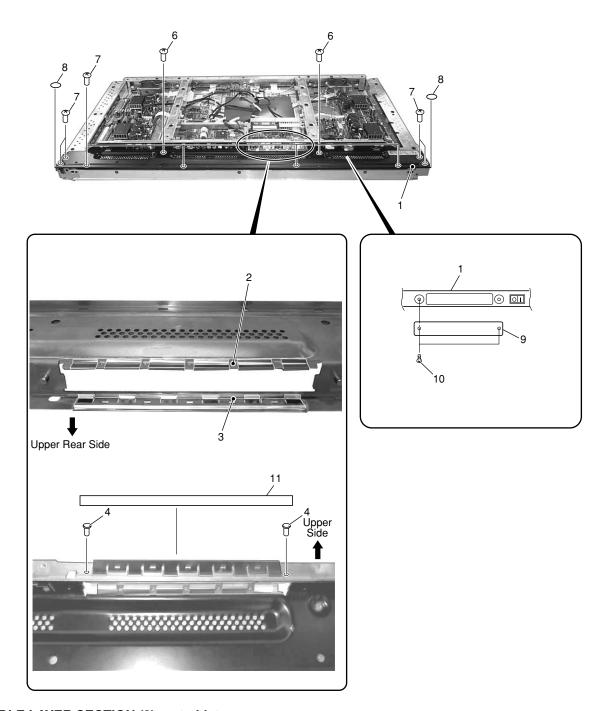
MIDDLE LAYER SECTION (3) parts List

Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
1	RGB Assy	AWZ6744	16	J111 Wire I	ADX2698
2	SLOT CONNECTOR Assy	AWZ6634	17	Wire Saddle	AEC1745
3	Spacer	AEC1065	NSP 18	Video Stay	AND1171
4	Card Spacer	AEC1882	19	••••	
NSP 5	RGB Base	ANA1662	20	••••	
6	Ground Finger	ANG2468	NSP 21	PCB Stay	AND1170
7	Card Spacer	AEC1899	22	Screw	AMZ30P060FZK
8	Ferrite Core (L3)	ATX1037	23	Screw	VBB30P100FNI
9	Ferrite Core Holder	AEC1818			
10	••••				
11	Guide Rail EX	AEC1900			
12	Clamp	AEC1884			
13	J107 12P Housing Wire	ADX2702			
14	J109 Wire G	ADX2696			
15	Nyron Rivet	AEC1671			

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2.11 MIDDLE LAYER SECTION (4)



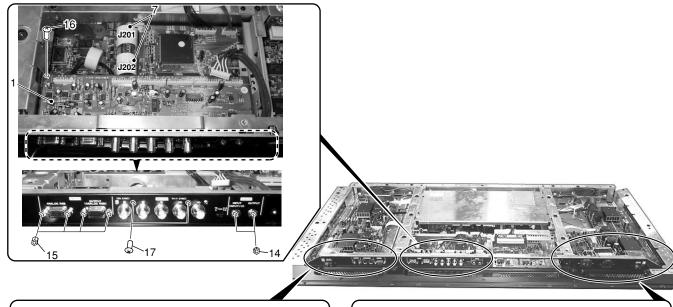
MIDDLE LAYER SECTION (2) parts List

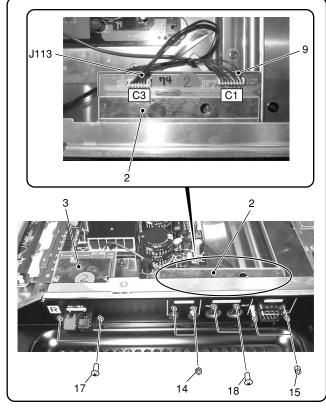
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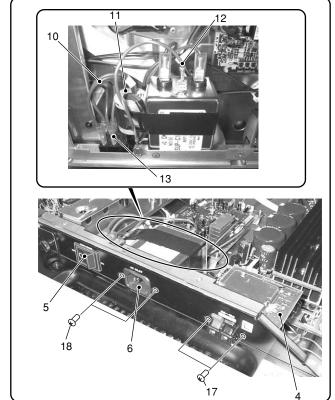
_	MIDDLE	LATER SECTION (2)	parts List	
Е	Mark No.	<u>Description</u>	Part No.	
	1	Terminal Panel	ANG2538	
	2	Slot Spring (Under)	ABK1028	
	3	Slot Spring (Upper)	ABK1031	
	4	Card Spacer	AEC1898	
	5	••••		
	6	Screw	AMZ30P060FZK	
	7	Screw	TBZ40P080FZK	
	8	Rear Corner Label	AAX2862	
F	9	Expansion Slot Cover	ANG2536	
'	10	Screw	BMZ30P060FZK	
	11	Gusket S	ANK1699	

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2.12 UPPER LAYER SECTION (1)







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UPPER LAYER SECTION (1) parts Lis

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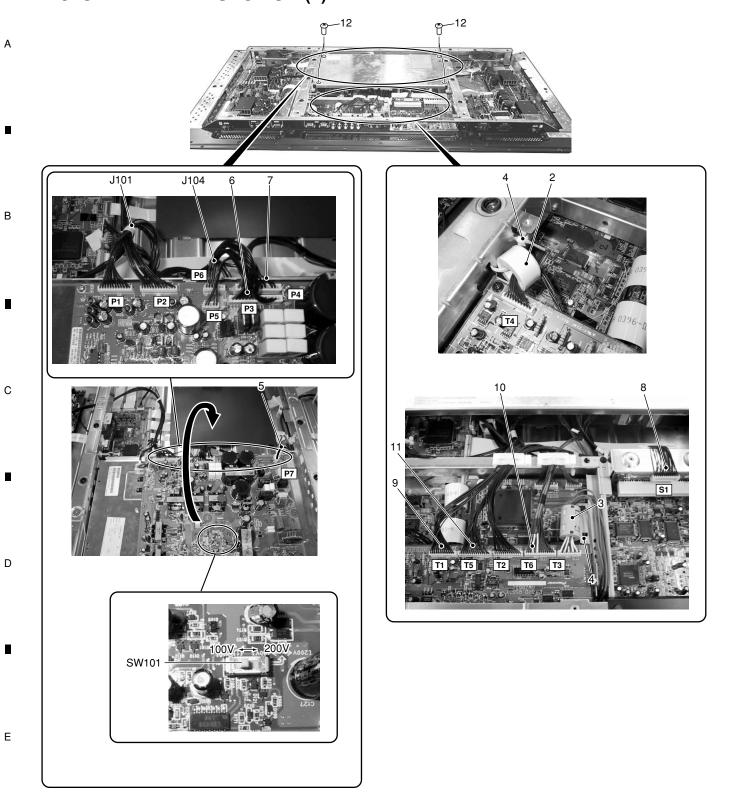
Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
1	I/O Assy	AWZ6631	11	Ferrite Core (L1)	ATX1032
2	CONTROL Assy	AWZ6633	12	J114 Earth Wire	ADX2709
3	SP OUT R Assy	AWZ6706	13	J105 Wire B	ADX2692
4	SP OUT L Assy	AWZ6705	14	Hexagonal Nut	ABN1035
5	Power Switch (S1)	BSM1006	15	Hexagonal Head Screw	BBA1051
6	AC Inlet with Filter (CN1)	AKP1223	16	Screw	PMB30P060FNI
7	J201, J202 Flexible Cable	ADD1183	17	Screw	BPZ30P080FZK
8	••••		18	Screw	BMZ30P060FZK
9	J109 Wire G	ADX2696			

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ADX2693

2.13 UPPER LAYER SECTION (2)

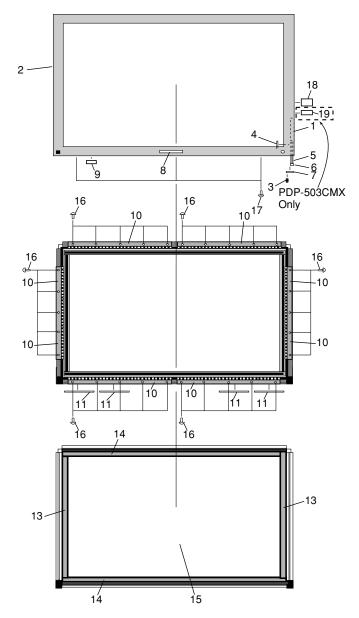


UPPER LAYER SECTION (2) parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
<u> </u>	SW Power Supply Module	AXY1059	7	J103 13P Housing Wire	ADX2700
2	Ferrite Core (L3)	ATX1037	8	J112 13P Housing Wire	ADX2703
3	Ferrite Core (L2)	ATX1039	9	J101 Wire F	ADX2695
4	Binder	AEC-093	10	J104 Wire H	ADX2697
5	J105 Wire B	ADX2692			
			11	J111 Wire I	ADX2698
6	J102 Wire E	ADX2782	12	Screw	AMZ30P060FZK

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2.14 FRONT CASE SECTION



FRONT CASE SECTION parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	SIDE KEY Assy	AWZ6637	11	Front Spacer	AEC1896
2	Front Case 50 (M)	AMB2698	12	• • • • •	
3	Rivet	AEC1877	13	Panel Cushion V	AED1199
4	Flexible Seal	AEH1036	14	Panel Cushion H	AED1198
5	J213 Flexible Cable	ADD1195	15	Protect Panel Assy	AMR3304
6	Ferrite Core (L4)	ATX1043	16	Screw	ABZ30P050FZK
7	Lead Cover (MX)	AMB2703	17	Screw	VMZ30P060FZK
8	Pioneer Badge	AAM1091	18	Energy Star Label	AAX2856
9	Serial Label	AAX2609	NSP 19	Display Label	See Contrast table (2)
NSP 10	Panel Holder	ANG2508			

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(2) CONTRAST TABLE PDP-503CMX/LUCB and PDP-503MXE/YVLDK are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-503CMX/ LUCB	PDP-503MXE/ YVLDK
NSP	19	Display Label	AAX2836	Not used

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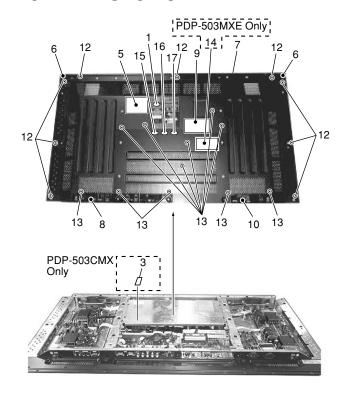
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2.15 REAR SECTION





REAR SECTION parts List

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Mark No.	Description	Part No.	Mark No.	<u>Description</u>	<u>Part No.</u>
NSP 1	Name Label	See Contrast table (2)	10	Terminal Display Label L	See Contrast table (2)
2	Gascket A	ANK1701			
3	Solder Warning Label	See Contrast table (2)	11	••••	
4	••••		12	Screw	TBZ40P080FZK
5	Cleaning Label	AAX2926	13	Screw	AMZ30P060FZK
	· ·		14	Korean Label	See Contrast table (2)
6	Rear Corner Label	AAX2862	15	Label (BLUE)	AAX2787
7	Rear Case (50M)	ANE1610			
8	Terminal Display Label R	AAX2931	16	Label (SILBER)	AAX2816
9	Bolt Caution Label	AAX2928	17	Label (GREEN)	AAX2955

 $\hbox{\bf (2) CONTRAST TABLE} \\ \hbox{PDP-503CMX/LUCB and PDP-503MXE/YVLDK are constructed the same except for the following:} \\$

Mark	No.	Symbol and Description	PDP-503CMX/ LUCB	PDP-503MXE/ YVLDK
NSP	1	Name Label Gray	AAL2418	AAL2419
	3	Solder Warning Label	AAX2644	Not used
	10	Terminal Label Lgray	AAX2932	AAX2933
	14	Korean Label	Not used	AAX2944

2.16 PANEL CHASSIS (50) ASSY (AWU1066)Panel Chassis (50) Assy (AWU1066) consists of the following parts.

Parts List	List of Assy
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Mark No.	Description	Part No.	<u>Mark</u>	<u>Description</u>	Part No.
NSP	SCAN FUKUGO ASSY	AWV1968 *	NSP	1SCAN FUKUGO ASSY	AWV1968
NSP	ADDRESS FUKUGO ASSY	AWV1900 *		2SCAN (A) ASSY	AWZ6722
NSP	Address Module (IC1 - IC40)	AXF1114		2SCAN (B) ASSY	AWZ6723
NSP	FPC (0003)	ADY1065		2X CONNECTOR (A) ASSY	
NSP	FPC (J0001)	ADY1066		2X CONNECTOR (B) ASSY	
	, ,			2BRIDGE A ASSY	AWZ6734
NSP	1Chassis Assy	ANA1711		2BRIDGE B ASSY 2BRIDGE C ASSY	AWZ6735 AWZ6736
NSP	2Chassis	ANA1655		2BRIDGE D ASSY	AWZ6736 AWZ6737
NSP	2Base Chassis	ANA1656		2CLAMP A ASSY	AWZ6737
NSP	2Scan Heatsink	ANH1609		2CLAMP B ASSY	AWZ6739
NSP	2Corner Angle A	ANG2457		2CLAMP C ASSY	AWZ6740
NSP	2Corner Angle B	ANG2458		2CLAMP D ASSY	AWZ6741
	2Sheet A	AEC1923			
	2Sheet B	AEC1924	NSP	1ADDRESS FUKUGO ASSY	
NSP	2Tube Cover	AMR3262	NSP	2ADR CONNECT A ASSY	AWZ6626
	2Rear Coner Label	AAX2862	NSP	2ADR CONNECT B ASSY	AWZ6627
	2Siricon Sheet 50	AEH1037	NSP NSP	2ADR CONNECT C ASSY 2ADR CONNECT D ASSY	AWZ6628
	2Adhesive Tape 50	AEH1038	NSP	2ADR RESONANCE ASSY	AWZ6629
	2Adhesive Tape B (50)	AEH1051		2ADIT TEGONANCE AGGT	AVV20730
	2Panel Siricon Sheet	AEH1055			
	Pin Grommet	AEC1015			
NSP	Protection Tape	AEH1059			
1101	Scan Siricon Sheet	AEH1057			
NSP	Plasma Panel Assy	AAV1238			
INOI	Screw	VBB30P100FNI			
	OCIGV	A DP201 LOOLINI			

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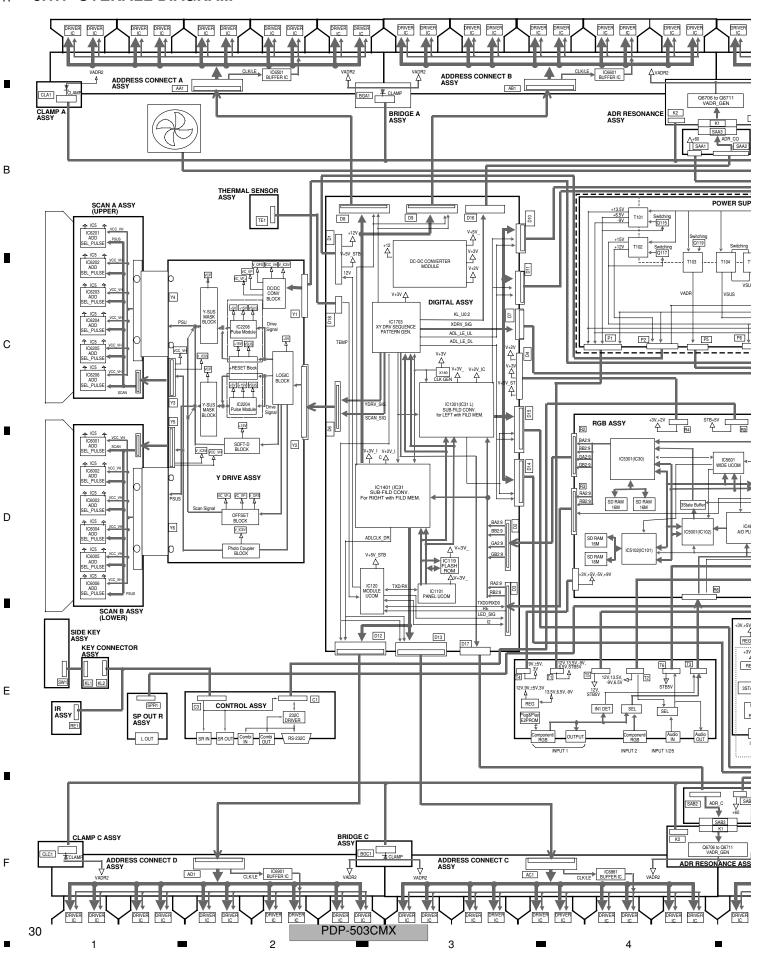
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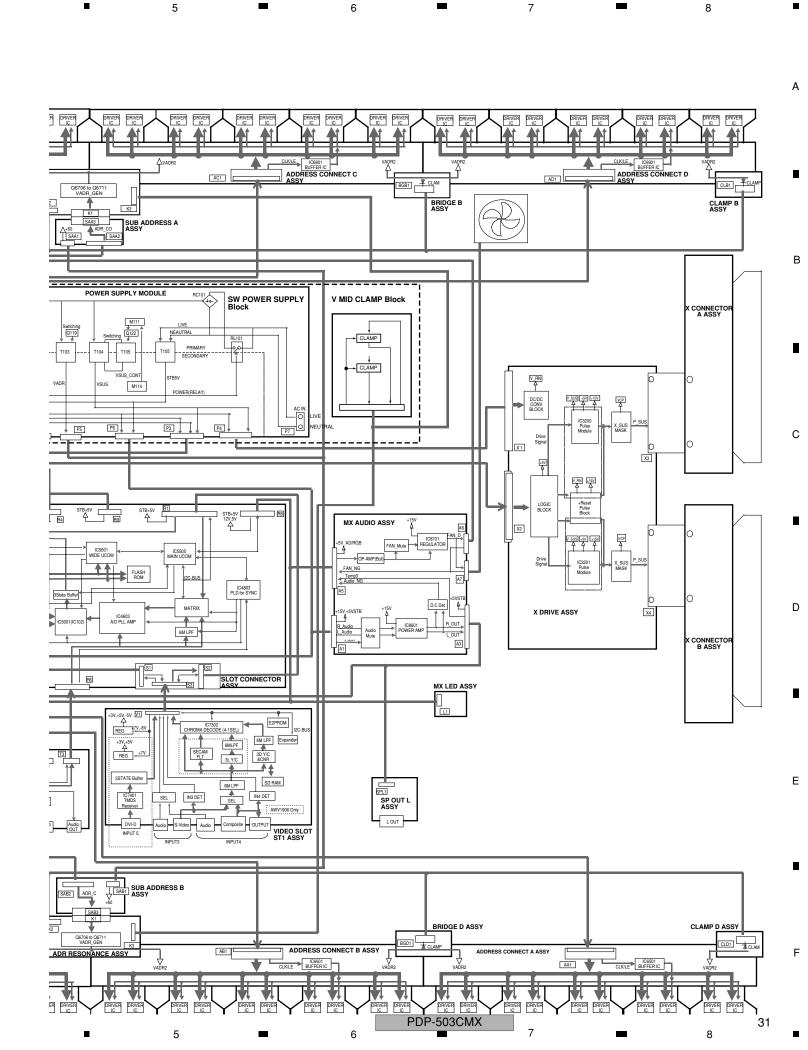
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3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

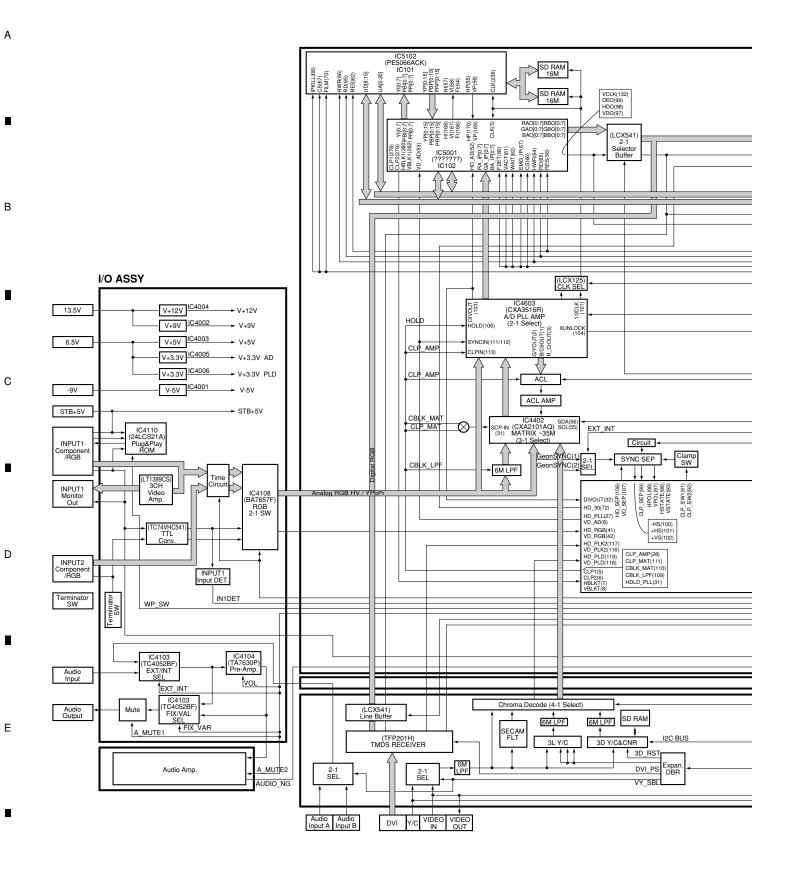
3.1.1 OVERALL DIAGRAM





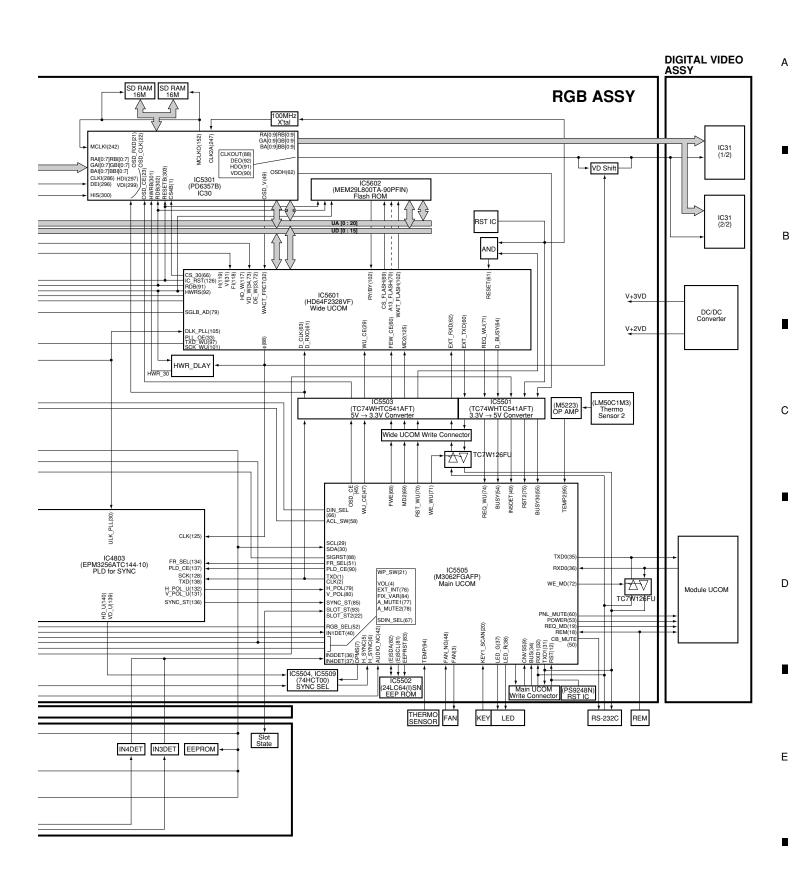
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RGB ASSY DIGITAL VIDEO ASSY 3.3V 2.5V IC1301 (IC31 L) (PD6358) **DRAM** Address Data RGB 2 phase 10 bit ADR CONNECT A - D Assy (Left section) Line Buffer IC5301 (PD6357) IC30 IC1401 (IC31 R) (PD6358) **DRAM** Address BUS Data BUS Control Signal ADR CONNECT A - D Assy (Right section) VD HD DE CLK Reflesh-rate Det. IC1191 Flash ROM IC1703 (IC23) (PE5064) Y DRIVE Assy 3.3V Address Resonance Control X DRIVE Assy IC1101 (HD64F2328VF) Panel Microcomputer AND PC_VIDEO ADR_K_EMG RESONANCE Assy ADR K PD U RXDO REM PM_ST PN_MUTE MAX_PLS1 DITHER MOD_SW POWER MAX_PLS2 OR \rightarrow 3.3V \rightarrow 5.0V Reset IC 5.0V AND CN1201 ADB ADB ADB DEW DET RST PU Panel W/B ADJ. Hour/Pulse meter pn EXT_RXD EXD RXD RST2 EXT_TXD EXD TXD STB5V 3.3V 2.5V STB5V EEP ROM IC5505 (M30624FGAGP) Main IC1207 (M30624FGAFP) Module Microcomputer DC/DC Converter Block RXDO TXDO REQ_MD DCC PD 5V Microcomputer WE_PN RESET AC_OFF PD_TRIGGER RELAY В Reset IC STB5V 12V DIG. THERMAL SENSOR Assy SW POWER SUPPLY Module

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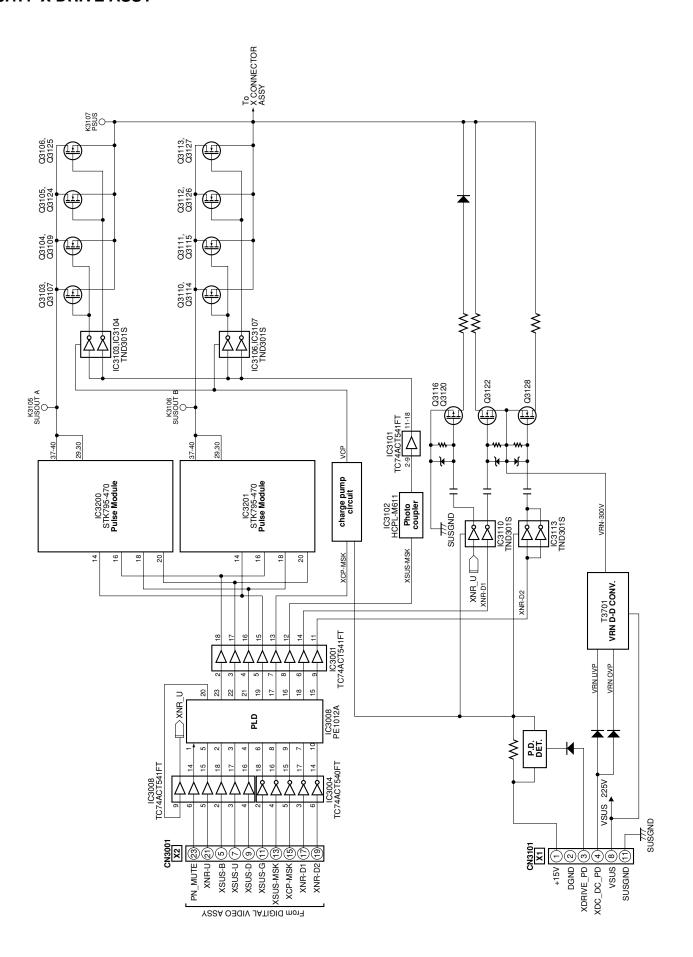
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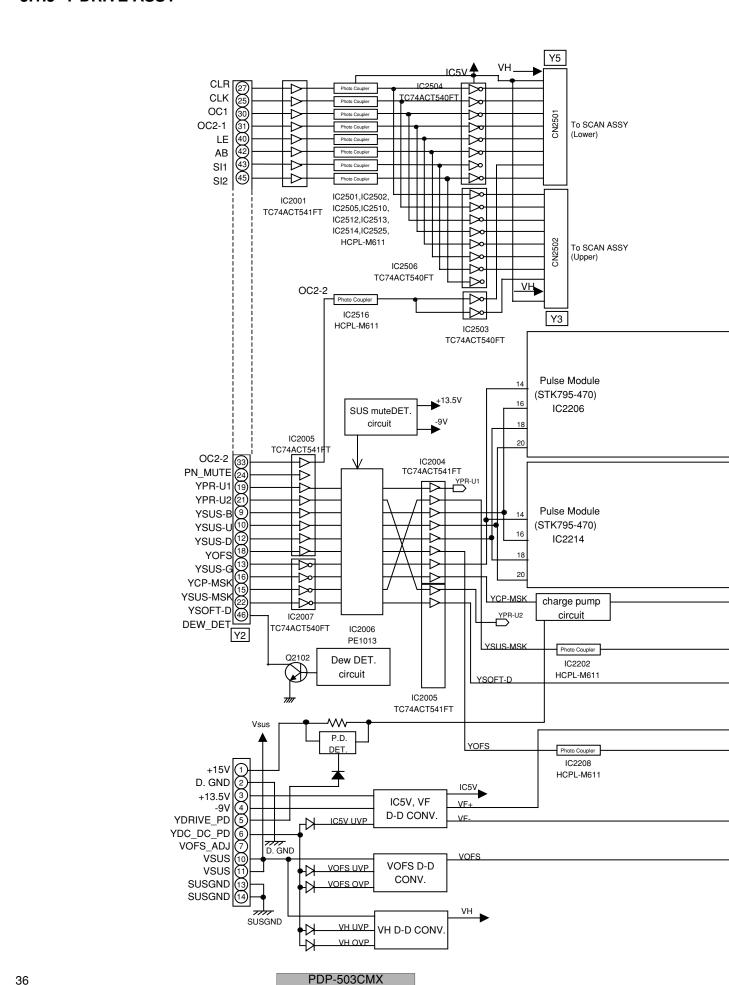
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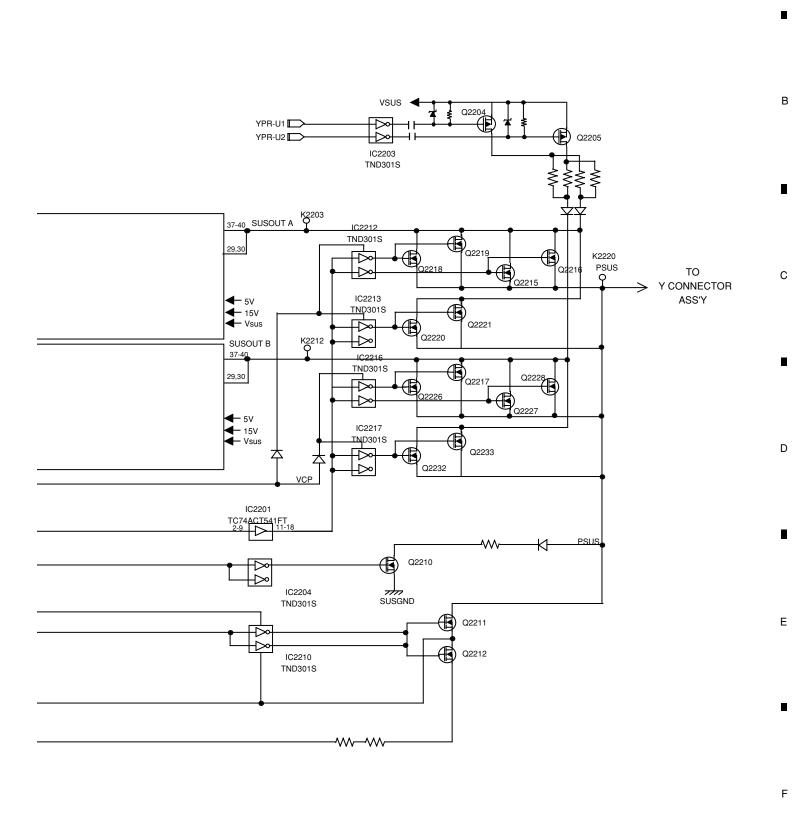
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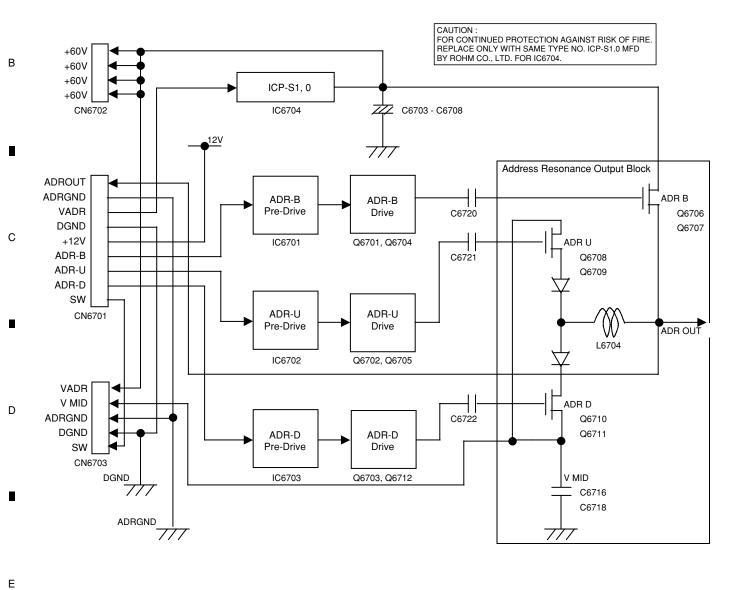
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Analog Video Signal

Digital Video Signal

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Digital Video Signal

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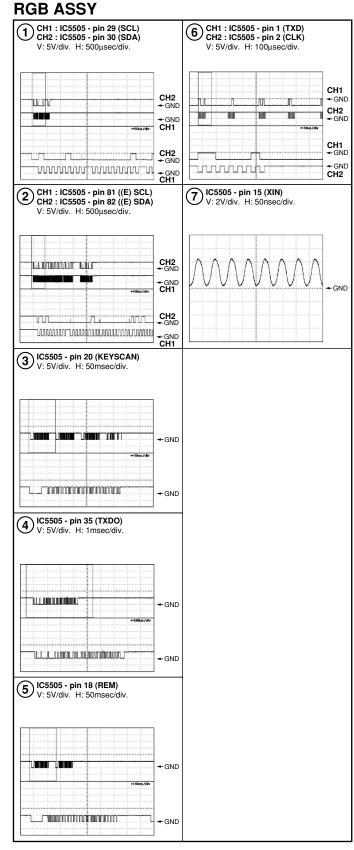
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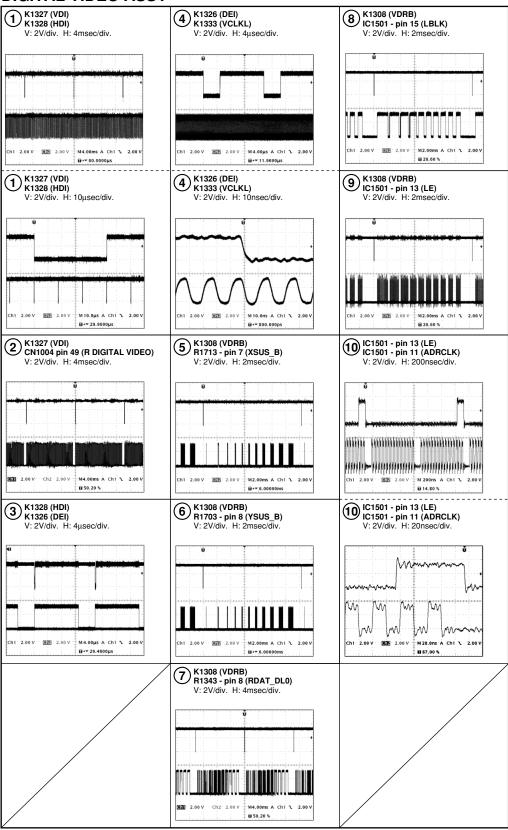
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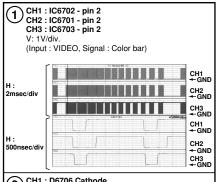
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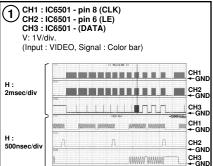
RESONANCE ASSY

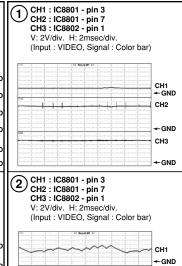
ADR CONNECT A - D ASSY

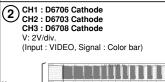
2 CH1 : IC6501 - pin 5 (HBLK) CH2 : IC6501 - pin 3 (LBLK) CH3 : IC6501 - pin 2 (HZ)

SUB ADDRESS A, B **ASSY**





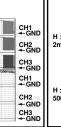


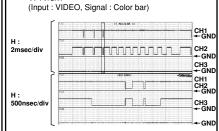


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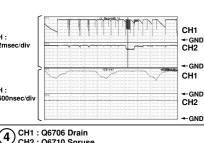


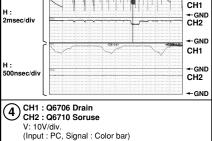


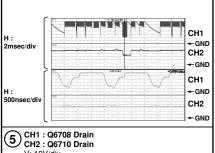


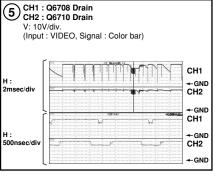
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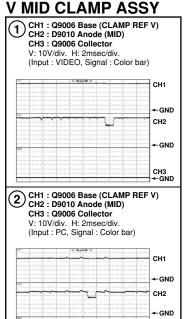


CH2

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СНЗ

←GND



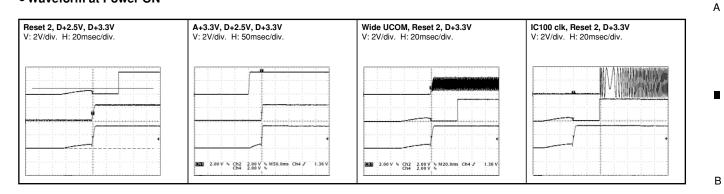
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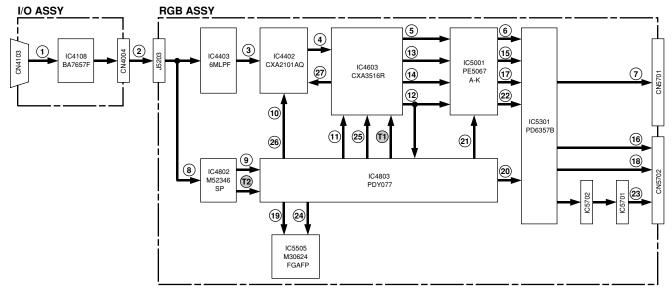
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Waveform at Power ON

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Measurement Point



Trigger Signal

 \bigcirc K4805 (HD_PLL) : For Horizonatal Sync. Signal

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12 IC4802 - pin 13 : For Vertical Sync. Signal

Measurement Condition

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(1) to (27): (28) to (29): (30) to (31): (32) to (33): (32) to (33): (32) to (33): (33) to (31): (32) to (33): (33

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: INPUT 2 (RGBHV) Input Signal Input Signal : XGA@60Hz Input Signal : XGA@60Hz Input Signal : 1125i : 480i Signal Pattern : H RAMP Signal Pattern : Monoscope Signal Pattern: Monoscope Signal Pattern: Monoscope Screen Mode Screen Mode Screen Mode Screen Mode : WIDE : FULL : FULL : FULL Clamp Mode Color Mode Clamp Mode Color Mode Clamp Mode Color Mode Clamp Mode : AUTO : AUTO : AUTO : AUTO Color Mode : COLOR MODE 1 : COLOR MODE 1 : COLOR MODE 1 : COLOR MODE 1

PDP-503CMX

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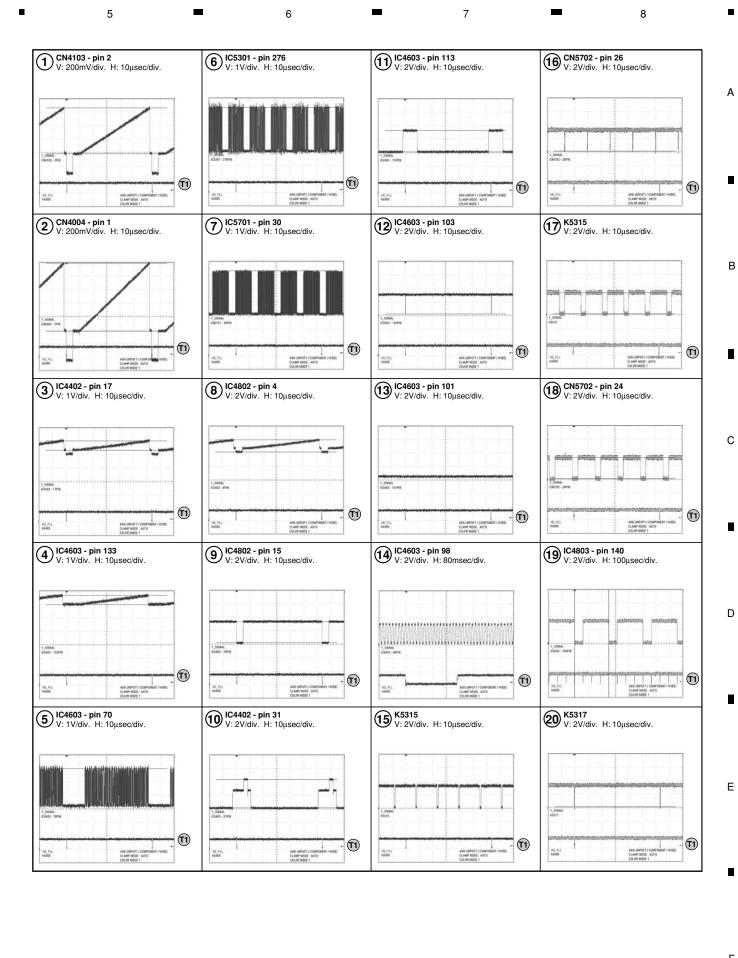
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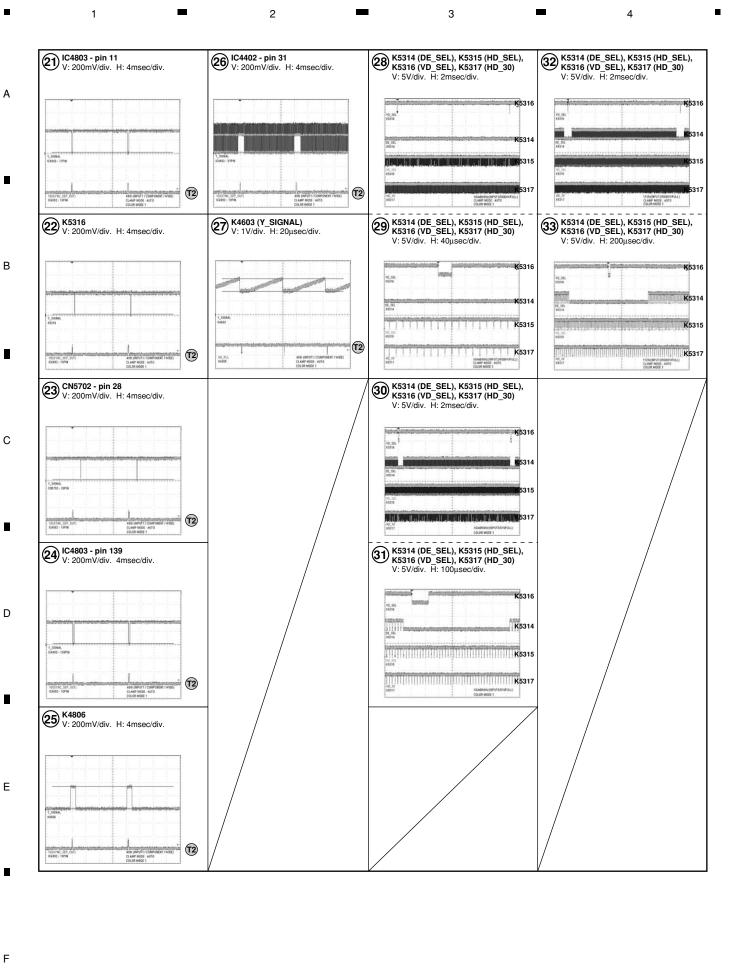
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5315 (HD SEL)
K5316 (VD_SEL)
nd K5317 (HD
K5316 (VD_SEL)
by the DVI input.
ize with K5316 K5316 (VD_SEL)
(5315 (HD SEL)
K5315 (HD_SEL) ation by the DVI K5316 (VD_SEL)
ation by the DVI K5316 (VD_SEL)
is 314 (DE_SEL), KE316 (VD_SEL)
ation by the DVI K5316 (VD_SEL)
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is 314 (DE_SEL), KE316 (VD_SEL)

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PDP-503CMX



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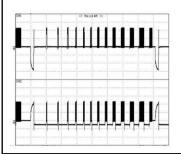
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Sustain Waveform (1 field)

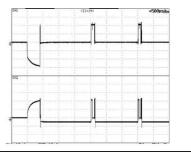
ch 1: K3107 (X.PSUS) - K3201 (SUSGND)

- V: 100V/div. H: 2msec/div. ch 2: K2220 (Y.PSUS) K2219 (SUSGND)
- V: 100V/div. H: 2msec/div.



Sustain Waveform (1 sub-field)

- ch 1 : K3107 (X.PSUS) K3201 (SUSGND)
- V: 100V/div. H: 500μsec/div. ch 2 : K2220 (Y.PSUS) K2219 (SUSGND) V: 100V/div. H: 500μsec/div.

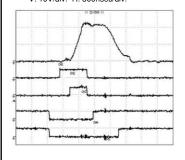


Sustain Waveform

- ch 1: K2220 (Y.PSUS) K2219 (SUSGND) V: 100V/div. H: 500nsec/div. ch 2: K2028 (YSUS U) - K2024 (DGND)
- V: 10V/div. H: 500nsec/div.

 ch 3: K2027 (YSUS_B) K2024 (DGND)

 V: 10V/div. H: 500nsec/div.
- ch 4 : K2029 (YSUS_D) K2024 (DGND)
- V: 10V/div. H: 500nsec/div. : K2037 (YSUS G) K2024 (DGND)
- V: 10V/div. H: 500nsec/div



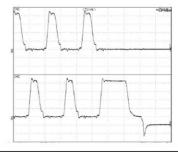
Sustain Waveform (sustain)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND)
- V: 50V/div. H: 5µsec/div. K2220 (Y.PSUS) K2219 (SUSGND) V: 50V/div. H: 5µsec/div.



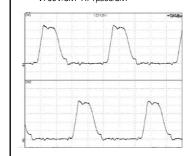
Sustain Waveform (sustain)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND) V: 50V/div. H: 2usec/div.
- ch 2 : K2220 (Y.PSUS) K2219 (SUSGND) V: 50V/div. H: 2µsec/div.



Sustain Waveform (1 field)

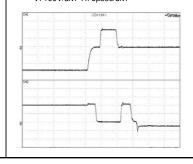
- ch 1: K3107 (X.PSUS) K3201 (SUSGND)
- V: 50V/div. H: 1μsec/div. ch 2 : K2220 (Y.PSUS) K2219 (SUSGND) V: 50V/div. H: 1µsec/div.



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Sustain Waveform (reset pulse)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND)
- V: 100V/div. H: 5μsec/div. ch 2 : K2220 (Y.PSUS) K2219 (SUSGND)
- V: 100V/div. H: 5µsec/div

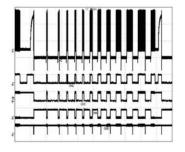


● Y Drive Pulse Control Waveform

- (1 field) ch 1: K2220 (Y.PSUS) - K2219 (SUSGND)
- V: 100V/div. H: 2msec/div. ch 2: K2039 (YCP_MSK) K2024 (DGND) V: 10V/div. H: 2msec/div.
- ch 3 : K2040 (YSUS_MSK) K2024 (DGND)
- V: 10V/div. H: 2msec/div. ch 4: K2041 (OFS) K2024 (DGND)
- V: 10V/div. H: 2msec/div.

 ch 5: K2053 (SOFT_D) K2024 (DGND)

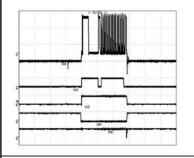
 V: 10V/div. H: 2msec/div.



Y Drive Pulse Control Waveform (1 sub-field)

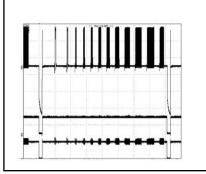
- ch 1: K2220 (Y.PSUS) K2219 (SUSGND)
- V: 100V/div. H: 50µsec/div. ch 2: K2039 (YCP_MSK) K2024 (DGND) V: 10V/div. H: 50µsec/div.
- ch 3 : K2040 (YSUS_MSK) K2024 (DGND) V: 10V/div. H: 50μsec/div. ch 4 : K2041 (OFS) K2024 (DGND)

- V: 10V/div. H: 50µsec/div. ch 5: K2053 (SOFT D) K2024 (DGND) V: 10V/div. H: 50μsec/div.



■ X Drive Pulse Control Waveform (1 field)

- ch 1 : K3107 (X.PSUS) K3201 (SUSGND)
- V: 100V/div. H: 2msec/div. ch 2 : K3017 (XCP MSK) K3005 (DGND)
- V: 10V/div. H: 2msec/div. ch 3: K3015 (XSUS_MSK) K3005 (DGND) V: 5V/div. H: 2msec/div.



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5.PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Therefore, when replacing, be sure to use parts of identical designation.
 When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \cdots RN1/4PC \boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

Mark	•	Part No.	Mark No.	<u>Description</u>	Part No.
	OF ASSEMBLIES	*****		(A) ASSY	
NSP	1SCAN FUKUGO ASSY	AWV1968 AWZ6722	SEMICONDU		
	2SCAN (A) ASSY	AWZ6722 AWZ6723	IC6201-IC620		SN755864APZ
	2SCAN (B) ASSY 2X CONNECTOR (A) ASSY			סו	KU10N16
		AWZ6732 AWZ6733	D6207		KUTUNTO
	2X CONNECTOR (B) ASSY		CARACITOR	^	
	2BRIDGE A ASSY	AWZ6734	CAPACITORS		
	2BRIDGE B ASSY 2BRIDGE C ASSY	AWZ6735 AWZ6736	-	2,C6212,C6213(0.1uF/250	,
				3,C6232,C6233(0.1uF/250	
	2BRIDGE D ASSY	AWZ6737		3,C6252,C6253(0.1uF/250	,
	2CLAMP A ASSY	AWZ6738	C6203, C625		CCSRCH151J
	2CLAMP B ASSY	AWZ6739	C6206, C621	0, C6215, C6219, C6227	CCSRCH181J
	2CLAMP C ASSY	AWZ6740			
	2CLAMP D ASSY	AWZ6741	· · · · · · · · · · · · · · · · · · ·	6, C6240, C6244, C6246	
NOD	1 ADDDESS FURIO ASSY	A\A\\ /4.000	C6255, C626		CCSRCH181J
NSP		AWV1900		9, C6217, C6218, C6226	
NSP	2ADR CONNECT A ASSY	AWZ6626		8, C6239, C6245, C6250	
NSP	2ADR CONNECT B ASSY	AWZ6627	C6257, C625	8	CCSRCH331J
NSP	2ADR CONNECT C ASSY	AWZ6628			
NSP	2ADR CONNECT D ASSY	AWZ6629		5, C6207, C6214, C6216	
	2ADR RESONANCE ASSY	AWZ6750		4, C6225, C6231	CCSRCH390J
	1 V DDIVE ACCV	A\A\\\/4.00.4	•	5, C6237, C6248, C6249	
	1X DRIVE ASSY	AWV1984	· · · · · · · · · · · · · · · · · · ·	4, C6256, C6262-C6266	CCSRCH390J
NSP	1 FOX DDIVE ACCV	A\A\\ /4.00C	C6211, C622	1, C6228, C6241, C6247	CKSRYF104Z
NSP	150 Y DRIVE ASSY	AWV1986			
	2Y DRIVE ASSY	AWZ6745	C6261		CKSRYF104Z
	2SUB ADDRESS A ASSY	AWZ6689			
	2SUB ADDRESS B ASSY	AWZ6690	<u>RESISTORS</u>		
	2SENSOR ASSY	AWZ6696	R6207, R6209	9, R6222, R6228, R6232	RAB4C221J
	2SLOT CONNECTOR ASSY	AWZ6634	R6239		RAB4C221J
	1DIGITAL VIDEO ASSY	AWV1979	Other Resisto	rs	RS1/16S###J
	insidin, Evises need	7	OTHERS		
NSP	1MX FUKUGO ASSY	AWV1976		COONNECTOR)	AL/D1010
	2CONTROL ASSY	AWZ6633	,	2, K6219, K6225, K6231	AKP1218 AKX9002
	2SIDE KEY ASSY	AWZ6637	(TEST PIN)	2, 10219, 10223, 10231	ANA9002
	2MX LED ASSY	AWZ6642	,	A /TECT DINI)	AL/V0000
	2IR ASSY	AWZ6643	K6239, K6244	+ (IESI PIN)	AKX9002
	2MX AUDIO ASSY	AWZ6644			
	2KEY CONNECTOR ASSY	AWZ6695			
	2SP OUT L ASSY	AWZ6705			
	2SP OUT R ASSY	AWZ6706	SCVN	(B) ASSY	
NSP	1RGB VIDEO ASSY	AWV1978	SEMICONDU	` '	
1101	2I/O ASSY	AWZ6631			CNIZEEOCAADZ
	2RGB ASSY	AWZ6744	IC6001-IC600	סע	SN755864APZ
	2 I GB AGG I	, (VV CO / TT	D6007		KU10N16
			CAPACITOR	2	

CAPACITORS

C6001,C6002,C6011,C6012(0.1uF/250V)ACG1088 C6021,C6022,C6031,C6032(0.1uF/250V)ACG1088 C6041,C6042,C6051,C6052(0.1uF/250V)ACG1088 C6004, C6058 C6005, C6009, C6013, C6015 CCSRCH151J50

	5	6	-		7	-	8	
<u>Ma</u>	ark No. Description C6026, C6027, C6038, C6040, C6044 C6044, C6054, C6059	Part No. CCSRCH181J5 CCSRCH181J5	0		GE D AS		Part No.	
	C6004, C6034, C6039 C6007, C6008, C6014, C6019, C6025 C6028, C6035, C6039, C6046, C6047 C6056, C6057	CCSRCH331J5	0 0 0	D6451			D1FL20U(S)	Α
		CCSRCH390J5	0	CAPACITOF C6451 (0.1u			ACG1098	
	C6037, C6043, C6045, C6049, C6053 C6055, C6060, C6062-C6066 C6010, C6016, C6030, C6036, C6050	CCSRCH390J5	0	OTHERS CN6451 (4P	PH CONNE	ECTOR)	B4B-PH-SM3	•
RE	C6061	CKSRYF104Z1		SEMICOND	IP A AS	_	D. (5)	
	R6007, R6012, R6021, R6028, R6032 R6040 Other Resistors	RAB4C221J RAB4C221J RS1/16S###J	<u>(</u>	D6461 CAPACITOF			D1FL20U(S)	В
ОТ	HERS			C6461 (0.1u	F/100V)		ACG1098	
	CN6001 (15P CONNECTOR) K6001, K6012, K6018, K6025, K6031 (TEST PIN)	AKP1218 AKX9002	<u>(</u>	OTHERS CN6461 (4P	PH CONNE	ECTOR)	B4B-PH-SM3	•
	K6038, K6044 (TEST PIN)	AKX9002			IP B AS			
	X CONNECTOR (A) AS	SSY	<u>\$</u>	D6471	<u>UCTORS</u>		D1FL20U(S)	
RE	ESISTORS All Resistors	RS1/16S###J	<u>(</u>	CAPACITOF C6471 (0.1u			ACG1098	С
RE	X CONNECTOR (B) AS	SSY	<u>(</u>	OTHERS CN6471 (4P	PH CONNE	ECTOR)	B4B-PH-SM3	
	All Resistors	RS1/16S###J		CI AM	IP C AS	SY		
<u>SE</u>	BRIDGE A ASSY		<u> </u>	SEMICOND D6481			D1FL20U(S)	
	D6421	D1FL20U(S)	<u>(</u>	CAPACITOF C6481 (0.1u			ACG1098	D
	APACITORS C6421 (0.1uF/100V)	ACG1098	<u>(</u>	OTHERS CN6481 (4P	,	-CTOR)	B4B-PH-SM3	
<u>01</u>	THERS CN6421 (4P PH CONNECTOR)	B4B-PH-SM3		0110401 (41	TTTOOTNIL	201011)	D4B 1 11 GIVIO	_
0.5	BRIDGE B ASSY		<u>\$</u>	CLAN SEMICOND D6491	IP D AS UCTORS		D1FL20U(S)	
SE	EMICONDUCTORS D6431	D1FL20U(S)	(CAPACITOR	RS		()	
CA	APACITORS C6431 (0.1uF/100V)	ACG1098	(C6491 (0.1u	F/100V)		ACG1098	E
<u>01</u>	CN6431 (4P PH CONNECTOR)	B4B-PH-SM3		CN6491 (4P		ŕ	B4B-PH-SM3	
	BRIDGE C ASSY		<u> </u>	ADR (SEMICOND) IC6501		T A ASSY	TC74VHC541FT	•
	EMICONDUCTORS D6441	D1FL20U(S)		Q6502 Q6503 D6501			2SC2712 2SK209 DA227	
<u>C</u>	APACITORS C6441 (0.1uF/100V)	ACG1098	<u>(</u>	COILS AND	FILTERS	<u> </u>		F
<u>01</u>	THERS CN6441 (4P PH CONNECTOR)	B4B-PH-SM3		L6501, L650	2		ATH1081	
•	5 -	6	PDP-503	BCMX	7	-	8	53

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Mark No.	Description	Part No.		Mark No.	Description	Part No.
CAPACITORS				Other Resistors		RS1/16S###J
C6511-C6520		ACG1105				
	C6534 (47uF/6.3V)	ACH1341		OTHERS		
C6536-C6538	(174170.01)	CCSRCH121J50		CN6801 (55P CC	NNFCTOR)	AKM1202
	C6521-C6525, C6532	CKSRYF104Z16		0.10001 (00.100		, <u>-</u>
C6535	00021 00020, 00002	CKSRYF104Z16				
00000		0.10.1.1.10.2.10		ADR CO	NNECT D ASS	SV.
RESISTORS						<i>)</i>
	R6524, R6526, R6528	RAB4C100J		SEMICONDUCT	<u>ions</u>	T07.0.0.05.4.5T
	R6533-R6537, R6539	RAB4C100J		IC6901		TC74VHC541FT
	R6545, R6547	RAB4C100J		Q6902		2SC2712
R6516		RAB4C473J		Q6903		2SK209
Other Resistors	3	RS1/16S###J		D6901		DA227
				COU C AND FIL	TEDO	
OTHERS				COILS AND FIL	IERS	AT114004
CN6501 (55P (CONNECTOR)	AKM1202		L6901, L6902		ATH1081
0.1000. (00.	3323,	7		0404017000		
				<u>CAPACITORS</u>		
ADR CO	ONECT B ASSY	/		C6911-C6920 (33	'	ACG1105
		_		C6931, C6933, C	6934 (47/6.3V)	ACH1341
SEMICONDUC	<u> JIORS</u>			C6936-C6938		CCSRCH121J50
IC6601		TC74VHC541FT			6921-C6925, C6932	CKSRYF104Z16
Q6602		2SC2712		C6935		CKSRYF104Z16
Q6603		2SK209				
D6601		DA227		RESISTORS		
0011 0 4110 5	U.TEDO				6924, R6926, R6928	RAB4C100J
COILS AND F	<u>ILIERS</u>				6933-R6937, R6939	RAB4C100J
L6601, L6602		ATH1081		R6941, R6943, R	16945, R6947	RAB4C100J
				R6916		RAB4C473J
<u>CAPACITORS</u>				Other Resistors		RS1/16S###J
C6611-C6620		ACG1105				
C6631, C6633,	C6634 (47uF/6.3V)	ACH1341		<u>OTHERS</u>		
C6636-C6638		CCSRCH121J50		CN6901 (55P CC	NNECTOR)	AKM1202
	C6621-C6625, C6632	CKSRYF104Z16				
C6635		CKSRYF104Z16				
				ADR RES	SONANCE AS	SSY
RESISTORS				SEMICONDUC	rors	
	R6624, R6626, R6628	RAB4C100J		/!\ IC6704 (1A/50V)		ICP-S1.0
	R6633-R6637, R6639	RAB4C100J		IC6701-IC6703		TND301S
	R6645, R6647	RAB4C100J		Q6704, Q6705, C	06712	2SB1132
R6616		RAB4C473J		Q6701-Q6703		2SD1664
Other Resistors	3	RS1/16S###J		Q6710, Q6711		2SK3483-Z
				,		
<u>OTHERS</u>				Q6706-Q6709		FX20ASJ-2
CN6601 (55P (CONNECTOR)	AKM1202		D6701, D6703, D	6704, D6706	1SS355
				D6709, D6710, D	6717, D6718	D1FL20U(S)
				D6711-D6714		SPX-62S
ADR CO	ONNECT C ASS	SY		D6702, D6705, D	6716	UDZ15B
SEMICONDUC	CTORS					
IC6801		TC74VHC541FT		COILS AND FIL	<u>TERS</u>	
Q6802		2SC2712		L6704		ATH1111
Q6803		2SK209				
D6801		DA227		CAPACITORS		
				C6716 (2.0uF/25)	0V)	ACE1162
COILS AND F	ILTERS			C6720, C6721 (0		ACG1101
L6801, L6802	<u></u>	ATH1081		C6722 (0.0068F/		ACG1102
20001, 20002		7.1111001		C6703-C6708 (56	6uF/80V)	ACH1347
CAPACITORS				C6709		CEHV101M16
C6811-C6820		ACG1105				
	C6834 (47uF/6.3V)	ACH1341		C6701, C6702		CEHV470M16
C6836-C6838		CCSRCH121J50		C6710, C6711, C	6713	CKSRYF104Z16
	C6821-C6825, C6832	CKSRYF104Z16				
C6835		CKSRYF104Z16		RESISTORS		
				Other Resistors		RS1/16S###J
RESISTORS						
	R6824, R6826, R6828	RAB4C100J		OTHERS		
	R6833-R6837, R6839	RAB4C100J		CN6701 (23P CC	NNECTOR)	AKP1221
	R6845, R6847	RAB4C100J		CN6702 (4P CON		B4B-PH-SM3
R6816		RAB4C473J		CN6703 (5P CON		B5B-PH-SM3
. 100 10		10 17 00		,	,	-
54		PD	P-503Cl	MX		
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•		=		•		=

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5	6	-	7	8	•
Mark No. Description	Part No.	Mark No.	Description	Part No.	
I/O ASSY		C4114, C41	8, C4127, C4165	CKSQYB105K10	
[I/O BLOCK]		C4170 C41	74	CKCOVB10EK10	
SEMICONDUCTORS		C4170, C417	30, C4133,C4134, C4142	CKSQYB105K10 CKSRYB103K50	Α
IC4003	PQ05DZ11		51, C4152, C4177-C4179	CKSRYB103K50	
IC4002	PQ09DZ11	C4108, C41		CKSRYB222K50	
IC4004	PQ12DZ11	C4146		CKSRYB471K50	
IC4005, IC4006	PQ3DZ13				
IC4001	TA79L05F	C4125, C412		CKSRYB472K50	_
CAPACITORS			9, C4121-C4123, C4128		
C4027	CEHAT100M50		58-C4160, C4162-C4164		
C4027 C4012, C4020, C4024	CEHAT101M10	C4168, C418	30-64182	CKSRYF104Z16	
C4008	CEHAT101M16	RESISTORS			
C4001, C4004, C4005, C4009, C4013		R4188-R419		RS1/16S1001F	
C4016, C4017	CEHAT470M16	R4271-R427	-	RS1/16S1101F	В
			36, R4213, R4214	RS1/16S2201F	٥
C4002, C4003, C4006, C4007	CKSRYF104Z16		66, R4180, R4210-R4212		
C4010, C4011, C4014, C4015	CKSRYF104Z16	R4262, R426		RS1/2S750J	
C4018, C4019, C4022, C4023	CKSRYF104Z16				
C4026	CKSRYF105Z10	Other Resist	ors	RS1/16S###J	
DECICTORS					
RESISTORS	DC1MMT1D0 I	<u>OTHERS</u>			
R4001, R4003, R4004, R4007 R4002	RS1MMF1R0J RS1MMF8R2J		4102 (MINI JACK)	AKN1069	
H4002	NO HVIIVIFONZJ		4104 (D-SUB SOCKET)	AKP1214	
OTHERS		CN4105 (BN	C SOCKET)	AKX1055	
CN4002	KM200NA15				
0144002	KIVIZOONATO	MV AI	IDIO ACCV		С
			JDIO ASSY		•
		[MX AUDIO B			
[RGB I/O BLOCK]		SEMICOND	<u>JCTORS</u>		
SEMICONDUCTORS		IC8601		BA5417	
IC4110	24LCS21A	Q8602 Q8603, Q86	DE 00007	2SA1037K	
IC4108	BA7657F	Q8606 Q8606	J3, Q6607	2SC2412K DTC143EK	
IC4107, IC4111	LT1399CS	Q8601		HN1B04FU	
IC4104	TA7630P	Q0001		111112041 0	
IC4103, IC4105	TC4052BF	Q8604		RN1901	
IC4109	TC74VHCT541AFT				
IC4109 IC4101, IC4102	UPC4570G2	COILS AND	<u>FILTERS</u>		
Q4114	2SC2412K	L8602, L860	3	ATH-059	D
Q4102	DTA143EK	L8601		ATH9003	
Q4103, Q4117	DTC143EK		_		
		CAPACITOR			
Q4104-Q4106, Q4108, Q4111, Q4112		C8602, C861		CEAT101M16	
Q4101, Q4113	HN1C01FU	C8606, C860)7	CEAT101M25	_
Q4115, Q4116	UMY1N	C8610	2 00614	CEAT221M16	
D4111	1SS184	C8605, C86 ⁻ C8609, C86 ⁻		CEAT470M35 CEAT471M25	
D4105-D4107,	D4114-D41161SS226	C0009, C00	J., OUULL	OLAI4/ HVIZO	
D4119,	D41201SS226	C8611, C86	8	CEAT4R7M50	
D4113, D4121	1SS352	C8612, C86		CKSQYF105Z16	
D4110	RD6.8MB	C8616, C862		CKSRYB103K50	_
D4108,D4109, D4112,D4113	UDZS5.6B	C8625		CKSRYB222K50	E
D4122, D4123	UDZS5.6B	C8623, C862	24	CKSRYB473K50	
		00001 0001		01/07)/5100750	
<u>SWITCHE</u>		C8601, C860)B	CKSRYF103Z50	
S4101	ASH1029	DECICTORO			
OADAOITODO		RESISTORS		DD1/0MM4E4001	•
CAPACITORS	00000115	R8633, R863 R8625, R863		RD1/2MMF100J RD1/2MMF152J	
C4144, C4145, C4155, C4156	CCSRCH220J50	R8624, R863		RD1/2MINIF152J RD1/4MUF100J	
C4109, C4117 C4166	CCSRCH221J50	Other Resist		RS1/16S###J	
C4166 C4137, C4161, C4169	CEHAT100M50 CEHAT101M10	23.0			
C4120, C4124, C4135, C4136	CEHAT470M16	OTHERS			
5 1125, 5 1127, 6 1100, 6 1100	JEI II II TI JIVITU		TE RECEIVER)	GP1UM26RK	F
C4139, C4140, C4143, C4150	CEHAT470M16	8602 (SCRE		PMZ30P080FMC	Г
C4153, C4154, C4157, C4174-C4176	CEHAT470M16		,		
C4167	CEHAT4R7M50				
C4101, C4104, C4106, C4110, C4111	CKSQYB105K10				
		PDP-503CMX			55
5 ■	6		7 -	8	•

	Mark No. Description	Part No.	Mark No.	Description	Part No.
	[FAN DRIVE BLOCK]		R4494 R4482		RS1/16S3901F RS1/16S4701F
Α	SEMICONDUCTORS		R4455		RS1/16S4702F
	IC8703	74VHCT00AMTC	R4489		RS1/16S5601F
	IC8702	M5223AFP	Other Resistors		RS1/16S###J
	IC8701	PQ20WZ11			
	Q8702	2SC2712			
	Q8701	HN1A01FU	[AD/PLL/AMP BL	OCKI	
	0.4.7.4.017.0.70		SEMICONDUC [*]	•	
	CAPACITORS	0=1=10014=0	IC4603	<u>IOno</u>	CXA3516AR
	C8703	CEAT100M50	IC4605		NJM072BM-E
	C8704, C8707, C8711 C8708, C8709, C8712	CEAT101M16 CEAT470M35	IC4604		TC74HC4066AF
	C8706, C8709, C8712 C8706, C8710	CKSRYF104Z16	IC4601		TC74LCX125FT
	C8705	CKSRYF105Z10	IC4602		TC7WH04FU
В	00700	OKO1111 100210			
	RESISTORS		Q4601, Q4602		2SC2412K
	R8715-R8717, R8720	RS1/16S1001F	Q4608		2SK208
	R8703	RS1/16S3001F	Q4607		DTC124EK
	R8707	RS1/16S5101F	Q4604-Q4606 Q4603		HN1B04FU HN1C01FU
_	R8712	RS1/16S8200F	Q 1 0U3		INTOUTFU
	R8710	RS3LMF2R7J	D4601-D4605		1SS355
	Other Resistors	RS1/16S###J	2 .00 . 5 -000		. 00000
	Other nesistors	N31/103###3	CAPACITORS		
1	OTHERS		C4623		CCSRCH101J50
	CN8704,CN8705 (3P CONNECTOR)	CN8705B3B-ZR-3.4	C4615, C4680		CCSRCH220J50
С	CN8703 (PH CONNECTOR)	B6B-PH-SM3	C4626, C4669		CCSRCH221J50
C			C4620		CCSRCH331J50
			C4604, C4607, C		CEHAT101M10
			C4651, C4652, C	C4656, C4668	CEHAT101M10
	RGB ASSY		C4622 C4662		CFTLA105J50 CKSRYB102K50
	[MATRIX BLOCK]		C4608, C4619, C	C4627 C4628	CKSRYB104K16
	SEMICONDUCTORS		C4634, C4635, C	,	CKSRYB104K16
	IC4402	CXA2101AQ			
	IC4403	ML6426CS-1	C4610, C4647		CKSRYB105K6R3
	IC4404	NJM072BM-E	C4675		CKSRYB184K10
	Q4407-Q4409	2SA1037K	C4601, C4605, C		CKSRYF104Z16
D	Q4413	2SC2412K	C4611-C4613, C		CKSRYF104Z16
_	04410	LINIAGAELI	C4624, C4625, C	J4629-C4633	CKSRYF104Z16
	Q4412 Q4404	HN1A01FU HN1B04FU	C4636, C4637, C	C4641-C4646	CKSRYF104Z16
	Q4410	HN1C01FU	C4648-C4650, C		CKSRYF104Z16
	D4401	1SS226		4663, C4677-C4679	CKSRYF104Z16
	CAPACITORS		RESISTORS		
_	C4406, C4412, C4458	CEHAT100M50		R4625, R4629, R4632	RAB4C101J
	C4405	CEHAT101M16		R4641, R4643, R4647	
	C4456	CEHAT470M16	R4653, R4657	, , -	RAB4C101J
	C4437, C4451-C4453	CKSQYB105K10	R4635		RN1/16SE3001D
_	C4407, C4409, C4410, C4428, C4429	CKSQYB474K16	R4630		RS1/16S2201F
Е	C4431, C4432, C4434-C4436, C4445	CKSQYB474K16	R4676, R4715		RS1/16S2204F
	C4448	CKSQYB474K16	R4626		RS1/16S2701F
	C4421-C4423, C4426	CKSRYB104K16	R4631		RS1/16S3301F
	C4408	CKSRYB222K50	VR4701 (4.7k)		ACP1091
_	C4411, C4414-C4418, C4420, C4424	CKSRYF104Z16	Other Resistors		RS1/16S###J
	C4427, C4430, C4433, C4438-C4444	CKSRYF104Z16	rovate estimate	L DI OCIT	
	C4446, C4447, C4449, C4450, C4455	CKSRYF104Z16	[SYNC CONTRO		
	C4457	CKSRYF104Z16	SEMICONDUC	<u>TORS</u>	
	RESISTORS		IC4802		M52346SP
		DARAC102 I	IC4801		NJM2234M
_	R4422, R4425, R4426 R4483	RAB4C103J RS1/16S1003F	IC4803 Q4806		PDY077E 2SC2412K
F	R4476	RS1/16S1003F RS1/16S1004F	Q4808, Q4809		DTC124EK
	R4448	RS1/16S2202F	Q-1000, Q+003		DIVILTER
	R4437	RS1/16S2204F	Q4803		HN1A01FU
			Q4807		HN1B04FU
	56	PDP-503CN			
1 -	1 —	2		_	4

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Mark No. Description	Part No. HN1C01FU	Mark No. Description [DIGITAL SELECT BLOCK]	Part No.	
D4807, D4808 D4801, D4802	1SS184 1SS226	SEMICONDUCTORS IC5201-IC5207	TC74LCX541FT	Α
COILS AND FILTERS F4801, F4802	ATF1194	CAPACITORS C5201-C5207	CKSRYF104Z16	
CAPACITORS C4863, C4864	CCSRCH151J50	RESISTORS R5213	RAB4C103J	
C4801, C4805 C4821, C4833 C4804	CCSRCH220J50 CCSRCH221J50 CCSRCH470J50	R5201-R5212, R5215, R5217 Other Resistors	RAB4C470J RS1/16S###J	-
C4807, C4810, C4823	CEHAT100M50	OTHERS J5203 (10P HOUSING WIRE)	ADX2706	
C4812, C4844 C4803, C4806, C4815 C4817, C4822 C4816 C4829	CEHAT101M10 CEHAT470M16 CEHAT4R7M50 CKSQYB105K10 CKSRYB472K50	J5204 (11P HOUSING WIRE) CN5201 (12P PLUG)	ADX2706 ADX2781 AKM1203	В
C4802, C4808, C4811, C4813, C4814	CKSRYF104Z16	[IC 30 BLOCK] SEMICONDUCTORS		
C4819, C4820, C4830, C4831, C4836 C4839, C4842, C4843, C4850, C4861 C4860	CKSRYF104Z16 CKSRYF104Z16 CKSRYF105Z10	IC5302, IC5303 IC5301	MS82V16520-8GA PD6357B	I
	CRONTI 100210	<u>CAPACITORS</u>		
RESISTORS R4814, R4818, R4835, R4915 R4913	RAB4C101J RAB4C102J	C5301, C5308 C5302-C5307, C5309-C5322, C5324	CEHAT101M10 CKSRYF104Z16	
R4809 R4825 R4808, R4943	RAB4C152J RAB4C471J RAB4C472J	RESISTORS Other Resistors	RS1/16S###J	С
R4864	RS1/16S1802F	<u>OTHERS</u>		
R4865 R4868 Other Resistors	RS1/16S2702F RS1/16S4702F RS1/16S###J	K5314-K5317 (TEST PIN) X5301 (100.00MHz)	AKX9002 ASS1161	
OTHERS		[MAIN UCOM BLOCK] SEMICONDUCTORS		
K4801,K4802,K4805,K4806 (TEST PIN K4809,K4810 (TEST PIN) CN4801 (8P PLUG)	I) AKX9002 AKX9002 CKS3130	IC5502 IC5504, IC5509 IC5512 IC5511 IC5510	24LC64(I)SN 74VHCT00AMTC LM50CIM3 M5223AFP PST9246N	D
[IP BLOCK]				
SEMICONDUCTORS IC5101, IC5103 IC5102 IC5001	MS82V16520-8GA PE5066A PE5067A	IC5503 IC5501 IC5506, IC5507 Q5501 Q5502, Q5503	TC74VHC541FT TC74VHCT541AFT TC7W126FU 2SJ461 DTA143EK	•
CAPACITORS C5017, C5121	CCSRCH220J50	Q5504	HN1A01FU	
C5006 C5015, C5016	CEHAT101M10 CEHAT221M6R3	CAPACITORS		
C5001-C5005, C5007-C5013 C5101-C5120	CKSRYF104Z16 CKSRYF104Z16	C5512, C5513, C5521, C5534 C5526, C5527 C5545	CCSRCH220J50 CCSRCH7R0D50 CEHAT100M50	Е
RESISTORS Other Resistors	RS1/16S###J	C5528, C5533 C5507, C5508, C5511, C5518, C5522	CEHAT470M16 CKSRYB102K50	
OTHERS 5002	ANH1574	C5529-C5531, C5536, C5537 C5535, C5538, C5539	CKSRYB102K50 CKSRYB221K50	
5001	ANH1576	C5524 C5525 C5502-C5505, C5509, C5514-C5517	CKSRYB472K50 CKSRYF103Z50 CKSRYF104Z16	
		C5519, C5520, C5523, C5532 C5542-C5544	CKSRYF104Z16 CKSRYF105Z10	F
	PDF	P-503CMX	57	

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	Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
	RESISTORS			CONTE	ROL ASSY	
	R5503, R5509, F	R5510	RAB4C101J	SEMICONDU	<u>CTORS</u>	
Α	R5535 R5504, R5526		RAB4C103J RAB4C473J	IC8001		DS14C232CM
	R5569		RS1/16S1001F	IC8002		TC74HC00AF
	R5571		RS1/16S1800F	Q8002 Q8001		2SC2712 HN1A01FU
	D====		DO. // DO. // D	Q8003		RN1901
İ	R5566 R5563		RS1/16S3001F RS1/16S5101F			
	Other Resistors		RS1/16S###J	D8009, D8010 D8001-D8008		1SS355 UDZ15B
	OTHERS			20001 20000		052.05
	OTHERS CN5506 (30P PL	IIG)	AKM1204	COILS AND F	FILTERS	
		(5508-K5510, K5512	AKX9002	L8001		LCTA221J3225
_	(TEST PIN)			CAPACITORS	3	
В		(5518A (TEST PIN)	KX9002		2, C8005, C8006	CEAT1R0M50
	X5501 (16MHz) CN5501, CN550	o (op di Lic)	ASS1159 CKS3130	C8003, C8010		CEAT470M16
	CN3501, CN350	12 (6F FLOG)	CN33130	C8004, C8007	7, C8008	CKSRYB103K50
				C8009		CKSRYB472K50
	[WIDE UCOM BL SEMICONDUC			RESISTORS		
	IC5601	10113	HD64F2328VF	R8006		RAB4C102J
	IC5602		MBM29LV400TC-90PFTN	Other Resistor	rs	RS1/16S###J
	IC5604		NC7SZ08P5	OTHERS		
	IC5603		PST9228N		002 (MINI JACK9	AKN1070
	IC5605		TC7SH32FU		OSE (MINTO MORE)	AKP1213
С	IC5607, IC5608		TC7WH74FU		005(6P MINI DIŃ SOCKE	
				CN8007 (PH 0	CONNECTOR)	B6B-PH-SM3
	CAPACITORS		0000001400450			
	C5601 C5615, C5616		CCSRCH102J50 CCSRCH7R0D50	SIDE K	EY ASSY	
	C5611		CKSRYB472K50	SWITCHES		
	C5612		CKSRYF103Z50	S8251-S8261		ASG1088
	C5604, C5606, C	C5608, C5610, C5613	CKSRYF104Z16			
	C5617-C5619		CKSRYF104Z16	OTHERS	FC CONNECTOR)	AKM1207
				CIN6251 (6P F	FC CONNECTOR)	ANNI1207
	RESISTORS					
D	R5603, R5604 Other Resistors		RAB4C103J RS1/16S###J		D ASSY	
	Other resistors		1101/100###0	<u>SEMICONDU</u>	<u>CTORS</u>	
	OTHERS			D8501		AEL1170
	X5601 (25MHz)		ASS1160	OTHERS		
					CONNECTOR)	S3B-PH-SM3
	[DIGITAL I/F BLC	оскі		(,	
	SEMICONDUC			ID ACC	·V	
	IC5701		TC7WH123FU	IR ASS		
	IC5702 D5701		TC7WH74FU 1SS352	SEMICONDU Q8551	CIORS	2SC2712
	D3701		100002	D8552		1SS226
Е	CAPACITORS			D8551		1SS355
	C5703		CCSRCH471J50	O A DA OLTO DO		
	C5701, C5702		CKSRYF104Z16	CAPACITORS C8551	<u> </u>	CEV470M6R3
	RESISTORS			C8553		CKSQYB472K50
	R5701-R5707, F	R5709,		C8552		CKSRYB103K50
	R5721		RAB4C101J	C8554		CKSRYF104Z16
	R5730		RS1/16S1003F	RESISTORS		
	Other Resistors		RS1/16S###J	Other Resistor	rs	RS1/16S###J
	<u>OTHERS</u>					.
F	CN5701, CN570	2 (50P CONNECTOR)	AKM1201	KEV C	ONNECTOR AS	SV
l '				SEMICONDU		J 1
				IC8301	<u>01003</u>	PD5719A
				Q8301		2SC2712

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Mark No. Description	Part No.	Mark No. Description	<u>Part No.</u>	
D8304-D8310	1SS226	<u>OTHERS</u>		
D8301, D8303 D8302	1SS355 RD3.0MB	CN8176 2P SPEAKER TERMINAL	AKE1059	
	TIDO.OIVID	CN8177 PH CONNECTOR	B3B-PH-SM3	
APACITORS	05 170001450			
C8303 C8304	CEAT2R2M50	Y DDIVE ACCV		
C8304 C8301, C8302, C8305	CKSRYB103K50 CKSRYB472K50	X DRIVE ASSY		
00001, 00002, 00000	ONOI 11 DATE 1.00	[X LOGIC BLOCK]		
<u>ESISTORS</u>		SEMICONDUCTORS		
R8315	RAB4C182J	IC3003	PE1012A	
Other Resistors	RS1/16S###J	IC3004 IC3001, IC3008	TC74ACT540FT TC74ACT541FT	
THERS				
CN8302 8P FFC CONNECTOR	AKM1207	COILS AND FILTERS	. EE \$400 I	
X8301 3.84MHz	ASS1162	L3001	LFEA100J	
CN8301 PH CONNECTOR	B4B-PH-SM3	CAPACITORS		
		C3005	CEHAT470M16	
CD CUT L ACCV		C3005 C3001, C3003, C3004, C3006	CKSRYF104Z50	
SP OUT L ASSY			OROTTI TOSESS	
EMICONDUCTORS	· = ==	RESISTORS		
IC8151	LM50CIM3	R3009-R3012	RAB4C0R0J	
IC8152 O8151	M5223AFP HN1 401 FU	R3001, R3003, R3026, R3029	RAB4C470J	
Q8151	HN1A01FU	R3002, R3005, R3030, R3033	RAB4C472J	
OILS AND FILTERS		Other Resistors	RS1/16S###J	
L8151, L8152	ATH1073	OTHERS		
20101, 20102	711111070	K3001, K3003, K3004, K3008, K301	10 AKX9002	
APACITORS		TEST PIN	υ Απλθυυς	
C8163, C8164	CCSRCH101J50	K3012-K3015, K3017, K3018	AKX9002	
C8154	CCSRSL221J50	TEST PIN	• • • • • •	
C8162	CEAT470M16	CN3001 30P CONNECTOR	KF050HA30L	
C8159	CKSRYB103K50			
C8151, C8153	CKSRYB332K50	5112 DI 001/1		
C8155	CKSRYB472K50	[X SUS BLOCK]		
C8157, C8161	CKSRYF104Z16	SEMICONDUCTORS IC3102	HCPL-M611	
C8158, C8160	CKSRYF105Z10	IC3102 IC3200, IC3201	HCPL-M611 STK795-470	
C8152	CKSRYF473Z50	IC3200, IC3201 IC3101	TC74ACT541FT	
		IC3103, C3104,IC3106,IC3107,IC31	110 TND301S	
ESISTORS		IC3113	TND301S	
R8153, R8154	RD1/2MMF100J RS1/16S1001F		· ·	
R8164 R8160	RS1/16S1001F RS1/16S1800F	IC3109	UPC78L05T	
R8160 R8165	RS1/16S1800F RS1/16S3001F	Q3116, Q3119, Q3120 Q3101	2SJ522 2SK2503	
R8159	RS1/16S5101F RS1/16S5101F	Q3101 Q3103-Q3107, Q3109-Q3115	2SK2503 FS16VS-9	
HOIDE	1101/10001011	Q3103-Q3107, Q3109-Q3115 Q3124-Q3127	FS16VS-9 FS16VS-9	
Other Resistors	RS1/16S###J	WOIET WOIE	101000	
= -		Q3122, Q3128	FS7VS-14A	
THERS		Q3102	HN1B04FU	
CN8151 2P SPEAKER TERMINAL		D3119	1SS184	
CN8152 PH CONNECTOR	B6B-PH-SM3	D3108, D3124, D3125, D3133 D3126, D3131, D3200, D3203, D320	1SS355 205 D1FL40	
: 400V				
SP OUT R ASSY		D3208, D3212-D3215 D3101, D3102, D3117, D3202, D320	D1FL40 207 EC11FS4	
COILS AND FILTERS		D3101, D3102, D3117, D3202, D320 D3210, D3211	EC11FS4	
L8176, L8177	ATH1073	D3210, D3211 D3216, D3217	RB751V-40	
		D3120, D3127-D3129, D3135, D313		
COLOR COLOR				
C8182, C8183	CCSRCH101J50	COILS AND FILTERS		
C8179 C8176, C8178	CCSRSL221J50 CKSRYB332K50	L3206, L3207	ATH1112	
C8176, C8178 C8180	CKSRYB332K50 CKSRYB472K50	L3201, L3204	ATH1117	
C8180 C8177	CKSRYF473Z50	L3202, L3205, L3210, L3211	ATH1118	
00177	UNUITI TIOLOG	L3101	LFEA100J	
RESISTORS		L3107, L3108	LFEA101J	
R8178, R8179 Other Resistors	RD1/2MMF100J RS1/16S###J	<u>CAPACITORS</u>		

C3225, C3226	Description	Part No.	Mark No. Description	Part No.
	6 (1.5uF)	ACE1160		
C3139, C3143	3 (0.1uF/630V)	ACG1092	<u>RESISTORS</u>	
C3223, C3224		ACG1104		DO4/4004004
			R3732	RS1/16S1001
C3200-C3202	, C3207-C3209	ACH1352	R3806	RS1/16S1802
			R3701-R3704, R3706-R3717	RS1/16S1803
C3132		ACH1353	•	
			R3805	RS1/16S2702
C3112		CEHAT101M16	R3731	RS1/16S3900
C3102, C3107	7, C3115, C3204, C3211	CEHAT101M25		
C3101		CEHAT221M25	D2000	DC1/100E001
			R3802	RS1/16S5601
C3104, C3106)	CEHAT470M16	R3738, R3739	RS1/2S102J
			R3800, R3801	RS1/2S823J
C3135		CEHAT470M25	VR3701 (1k)	ACP1089
C3137, C3138		CKSRYB473K25	` ,	
			Other Resistors	RS1/16S###
C3103, C3105	5, C3108, C3109, C3111	CKSRYF104Z50		
C3113, C3114	4, C3117, C3130, C3140	CKSRYF104Z50		
ESISTORS			Y DRIVE ASSY	
	1 D2107 (15)	ACN11156		
R3183, R3184		ACN1156	[Y DRIVE LOGIC BLOCK]	
R3113, R3114	4, R3121, R3122, R3126	RAB4C100J		
R3132, R3140		RAB4C100J	<u>SEMICONDUCTORS</u>	
,	*		IC2006	PE1013B
	7, R3230, R3234, R3237			
R3240, R3242	2, R3245	RS1/10S184J	IC2007	TC74ACT540
-,	•		IC2001, IC2003-IC2005	TC74ACT541
Baa =		DO. // 20	IC2101	TLP181(GR)
R3211, R3213	3, R3214, R3218	RS1/16S2000F		
R3134, R3163		RS1/2S100J	Q2101, Q2102	HN1C01FU
•	•			
R3103		RS1/2S102J	D0101	100055
R3109		RS1/2S2R2J	D2101	1SS355
R3102		RS1/2S561J		
N3102		H31/233013	COILS AND FILTERS	
			COILS AND FILTERS	
R3215, R3216	3	RS1MMF101J	L2001	LFEA100J
,				
R3228, R3229		RS1MMF102J		
R3178, R3179	9	RS3LMF121J	<u>CAPACITORS</u>	
VR3200, VR3	204	ACP1089	C2101	CEHAT100M
Other Resisto	rs	RS1/16S###J	C2103	CEHAT1R0N
			C2003	CEHAT470M
THERE			C2001, C2004, C2005, C2007, C2008	
THERS				
K3203, K3213	TEST PIN	AKX9002	C2010, C2102, C2104, C2122	CKSRYF104
,	114 GROUND PLATE	ANK-142		
			7-010-070	
CN3101 13P	PLUG	KM250MA13	<u>RESISTORS</u>	
			R2015-R2018	RAB4C0R0J
			R2001, R2002, R2005, R2011	RAB4C470J
DD CON BL	.OCK1		R2037, R2038	RAB4C470J
			R2035, R2036, R2039, R2040	RAB4C472J
				11/10404720
<u>EMICONDU</u>	CIORS		Other Resistors	
	CIORS	AN1431M	Other resistors	RS1/16S###
EMICONDU IC3712	CTORS		Other resistors	RS1/16S###
EMICONDU IC3712 IC3701		MIP161		RS1/16S###
EMICONDU IC3712 IC3701 IC3702-IC370			OTHERS	
EMICONDU IC3712 IC3701		MIP161		RS1/16S###. AKM1201
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701		MIP161 TLP181(GR) 2SC2712	OTHERS CN2001 50P CONNECTOR	AKM1201
EMICONDU IC3712 IC3701 IC3702-IC370		MIP161 TLP181(GR)	OTHERS CN2001 50P CONNECTOR 2101 SENSOR	AKM1201 AXX1057
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701		MIP161 TLP181(GR) 2SC2712	OTHERS CN2001 50P CONNECTOR	AKM1201 AXX1057
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800	4	MIP161 TLP181(GR) 2SC2712 HN1A01FU	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW	AKM1201 AXX1057
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D371	4	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355	OTHERS CN2001 50P CONNECTOR 2101 SENSOR	AKM1201 AXX1057 BMZ20P040F
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706	4	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S)	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW	AKM1201 AXX1057 BMZ20P040I
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D371	4	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW	AKM1201 AXX1057 BMZ20P040I
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702	166	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT	AKM1201 AXX1057 BMZ20P040F
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3708	166	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK]	AKM1201 AXX1057 BMZ20P040I
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702	166	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT	AKM1201 AXX1057 BMZ20P040I
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3708	166	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS	AKM1201 AXX1057 BMZ20P040I NB20FMC
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3708 D3703	166	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208	AKM1201 AXX1057 BMZ20P0401 NB20FMC
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3708	166	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS	AKM1201 AXX1057 BMZ20P040I NB20FMC
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3708, D3703 D3707	4 6 9, D3713	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214	AKM1201 AXX1057 BMZ20P0401 NB20FMC HCPL-M611 STK795-470
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3708, D3703 D3707	4 6 9, D3713	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201	AKM1201 AXX1057 BMZ20P0401 NB20FMC HCPL-M611 STK795-470 TC74ACT54
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 DILS AND I	4 6 9, D3713	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213	AKM1201 AXX1057 BMZ20P040I NB20FMC HCPL-M611 STK795-470 TC74ACT54' TND301S
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3702 D3708, D3703 D3707	4 6 9, D3713	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201	AKM1201 AXX1057 BMZ20P040I NB20FMC HCPL-M611 STK795-470 TC74ACT54*
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 DILS AND I	4 6 9, D3713	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213	AKM1201 AXX1057 BMZ20P040F NB20FMC HCPL-M611 STK795-470 TC74ACT541 TND301S
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 DILS AND I	4 6 9, D3713	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217	AKM1201 AXX1057 BMZ20P040F NB20FMC HCPL-M611 STK795-470 TC74ACT541 TND301S TND301S
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3702 D3708, D3703 D3707 DILS AND I L3701	1 5 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213	AKM1201 AXX1057 BMZ20P040I NB20FMC HCPL-M611 STK795-470 TC74ACT54' TND301S
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3702 D3708, D3703 D3707 OILS AND I L3701	1 5 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209	AKM1201 AXX1057 BMZ20P040I NB20FMC HCPL-M611 STK795-470 TC74ACT54' TND301S TND301S
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 OILS AND I T3701 APACITORS	1 5 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203	AKM1201 AXX1057 BMZ20P040R NB20FMC HCPL-M611 STK795-470 TC74ACT541 TND301S TND301S UPC78L05T 2SJ281
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 OILS AND I L3701 T3701 APACITORS C3701	1 5 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205	AKM1201 AXX1057 BMZ20P040R NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 DILS AND I L3701 T3701 APACITORS	1 5 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203	AKM1201 AXX1057 BMZ20P040R NB20FMC HCPL-M611 STK795-470 TC74ACT541 TND301S TND301S UPC78L05T 2SJ281
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 DILS AND I L3701 T3701 APACITORS C3701 C3717	1 5 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201	AKM1201 AXX1057 BMZ20P040R NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 OILS AND I L3701 T3701 APACITORS C3701 C3717 C3704	1 6 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205	AKM1201 AXX1057 BMZ20P040R NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 OILS AND I L3701 T3701 APACITORS C3701 C3717 C3704	1 6 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201	AKM1201 AXX1057 BMZ20P040R NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 DILS AND I L3701 T3701 APACITORS C3701 C3717 C3704 C3706, C3711	1 6 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16 CEHAT101M25	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2204, IC2214 IC2201 IC2203, IC2204, IC2210, IC2212, IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228	AKM1201 AXX1057 BMZ20P040R NB20FMC HCPL-M611 STK795-470 TC74ACT54 TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 DILS AND I L3701 T3701 APACITORS C3701 C3717 C3704	1 6 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228 Q2232, Q2233	AKM1201 AXX1057 BMZ20P040I NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20 FQB34N20
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 DILS AND I L3701 T3701 APACITORS C3701 C3717 C3704 C3706, C3711	1 6 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16 CEHAT101M25	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2204, IC2214 IC2201 IC2203, IC2204, IC2210, IC2212, IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228	AKM1201 AXX1057 BMZ20P040I NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3708, D3703 D3707 DILS AND I L3701 T3701 APACITORS C3701 C3717 C3704 C3706, C3711 C3712	1 6 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16 CEHAT101M25 CEHAT331M16	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228 Q2232, Q2233 Q2210, Q2211	AKM1201 AXX1057 BMZ20P040R NB20FMC HCPL-M611 STK795-470 TC74ACT541 TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20 FQB34N20 FS16VS-9
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 OILS AND I L3701 T3701 APACITORS C3701 C3717 C3704 C3706, C3711 C3712 C3705	4 1 5 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16 CEHAT101M25 CEHAT331M16 CKSQYF104Z50	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228 Q2232, Q2233 Q2210, Q2211 Q2209	AKM1201 AXX1057 BMZ20P040F NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20 FQB34N20 FS16VS-9 HN1B04FU
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3706 D3702 D3708, D3703 D3707 OILS AND I L3701 T3701 APACITORS C3701 C3717 C3704 C3706, C3711 C3712 C3705	1 6 9, D3713 FILTERS	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16 CEHAT101M25 CEHAT331M16	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228 Q2232, Q2233 Q2210, Q2211 Q2209 D2225	AXX1057 BMZ20P040F NB20FMC HCPL-M611 STK795-470 TC74ACT541 TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20 FQB34N20 FS16VS-9 HN1B04FU 1SS184
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3708, D3703 D3707 OILS AND I L3701 T3701 APACITORS C3701 C3717 C3704 C3706, C3712 C3705 C3703, C3707	1	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16 CEHAT101M25 CEHAT331M16 CKSQYF104Z50 CKSRYB104K16	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228 Q2232, Q2233 Q2210, Q2211 Q2209 D2225	AKM1201 AXX1057 BMZ20P040F NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20 FQB34N20 FS16VS-9 HN1B04FU 1SS184
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3708, D3703 D3707 DILS AND I L3701 T3701 APACITORS C3701 C3717 C3704 C3706, C3711 C3705	1	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16 CEHAT101M25 CEHAT331M16 CKSQYF104Z50 CKSRYB104K16 CKSRYB104K16	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228 Q232, Q2233 Q2210, Q2211 Q2209 D2225 D2202, D2204	AKM1201 AXX1057 BMZ20P040F NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20 FQB34N20 FS16VS-9 HN1B04FU
EMICONDU IC3712 IC3701 IC3702-IC370 Q3701 Q3800 D3710, D3711 D3705, D3702 D3708, D3703 D3707 OILS AND I L3701 T3701 APACITORS C3701 C3717 C3704 C3706, C3712 C3705 C3703, C3705	1	MIP161 TLP181(GR) 2SC2712 HN1A01FU 1SS355 D1FL20U(S) EC8FS6 RD110P UDZ18B UDZS5.6B ATH1110 ATK1153 ACH1345 ACH1346 CEHAT101M16 CEHAT101M25 CEHAT331M16 CKSQYF104Z50 CKSRYB104K16 CKSRYB104K16	OTHERS CN2001 50P CONNECTOR 2101 SENSOR 2001 SCREW 2002 NUT [Y DRIVE SUS BLOCK] SEMICONDUCTORS IC2202, IC2208 IC2206, IC2214 IC2201 IC2203,IC2204,IC2210,IC2212,IC2213 IC2216, IC2217 IC2205, IC2209 Q2203 Q2204, Q2205 Q2201 Q2215-Q2221, Q2226-Q2228 Q2232, Q2233 Q2210, Q2211 Q2209 D2225	AKM1201 AXX1057 BMZ20P040F NB20FMC HCPL-M611 STK795-470 TC74ACT54* TND301S TND301S UPC78L05T 2SJ281 2SJ522 2SK2503 FQB34N20 FQB34N20 FS16VS-9 HN1B04FU 1SS184

В

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Mark No.	Description	Part No.		Mark No.		<u>Description</u>	Part No.		
D2211		1SS355		COILS AND		ΓERS			
D2201	5, D2214, D2216, D2223	D1FL20U(S)		L2501-L250	03		LFEA100J		Α
D2203, D2203 D2226, D2223		D1FL40		CADACITO	DC				
D2209	., === .0	DF20L60		CAPACITO C2506, C25			CEHAT220M2D		
				C2506, C26	327		CEHAT220M2D CEHAT221M16		
	0, D2212, D2215	EC11FS4		C2524, C25	525		CEHAT470M16		
	2, D2228, D2239	EC11FS4		C2501, C25	503, C2	2505, C2507, C2508	B CKSRYF104Z50		
D2224, D2229 D2206, D220		RB751V-40 UDZ15B		C2513, C25	517		CKSRYF104Z50		_
D2200, D220	l	ODZIJB			_				
COILS AND	FILTERS			RESISTOR			54546464		
L2207		ATH1110		R2502, R25 Other Resis			RAB4C101J RS1/16S###J		
L2213, L2214		ATH1112		Other Resis	Stors		HS1/16S###J		
L2206, L2211		ATH1117		OTHERS					В
	, L2215, L2216	ATH1118			:N2502	15P CONNECTOR	R AKM1200		
L2210		LFEA100J		0142301, 0	112502	151 CONNECTOR	AINIIZOO		
L2203, L2205		LFEA101J							
L2203, L2203		LFEA470J		[Y DRIVE DE	D-CON	I BLOCK]			
LZZOT		LI L/4700		SEMICONE	DUCT	ORS			_
CAPACITORS	S			IC2715-IC2	2717		AN1431M		
	= 0, C2231, C2250-C2252 (*	I.5uF)ACE1160		IC2709			HCNR201		
	0 (0.1uF/630V)	ACG1092		IC2708, IC2	2710, K	C2718	M5223AFP		
C2233, C2248		ACG1104		IC2711			MIP0223SC		
C2211 (47uF/	350V)	ACH1346		IC2701			MIP161		
C2216, C2217	7, C2219, C2234-C2236	ACH1352		IC2704			MID001		_
					2702 10	C2705-IC2707	MIP301 TLP181(GR)		С
C2232	-	ACH1354		IC2712-IC2		32703-102707	TLP181(GR)		
C2221, C222	o 7, C2237, C2240, C2247	CEHAT101M16		Q2701, Q2			2SC2712		
C2204, C222	1, 02231, 02240, 02241	CEHAT221M25		Q2704			HN1A01FU		
C2218, C222	4. C2229	CEHAT470M16							
	,					2718, D2732, D2734			
C2212, C2214	4	CEHAT470M25		D2736, D27		Do Do	1SS355		-
	3, C2205, C2208, C2213			D2704, D27 D2728	706, D2	2707, D2715, D2726	D1FL20U(S) D1FL20U(S)		
	2, C2223, C2238, C2239			D2728 D2711			D1FS4		
C2241, C224	2	CKSRYF104Z50	1	02/11			D11 34		
RESISTORS				D2702, D27	714, D2	2727	EC11FS4		
	3, R2291, R2305, R2315	RAB4C100J		D2725			EC8FS6		D
R2317, R234		RAB4C100J		D2733			RD91P		
,	6, R2270, R2283, R2332	RS1/10S184J		D2724			U1ZB330		
R2338, R235		RS1/10S184J		D2713			U1ZB36		
R2359-R2362)	RS1/16S2000F		D2740			UDZ12B		
				D2740 D2709, D27	716		UDZ3.6B		
R2263, R2264	4	RS1/2S100J		D2729, D27			UDZ33B		
R2203		RS1/2S102J		D2703, D27			UDZ36B		
R2209 R2202		RS1/2S2R2J RS1/2S561J		D2720, D27	730, D2	2739	UDZS5.6B		
R2278, R230	3	RS1MMF101J							
,				COILS AND	D FIL	<u>rers</u>			
R2233, R2234	4	RS1MMF102J		L2701			ATH1110		_
R2274, R2275		RS1MMF221J		T2702			ATK1150		Е
R2298, R2299		RS2MMF4R7J		T2703 T2701			ATK1151 ATK1152		
R2276, R228		RS3LMFR82J		12701			AIRTISE		
VR2201, VR2	205 (1K)	ACP1089		CAPACITO	RS				
Other Resisto	re	RS1/16S###J		C2701, C27		υΕ/315V)	ACH1345		
Other resiste	10	1101/100/////		C2706, C27			CEHAT101M16		
OTHERS				C2709, C27	718, C2	2720, C2739, C274	5 CEHAT101M25		_
K2206, K2218	B TEST PIN	AKX9002		C2708			CEHAT101M2A		
,	210 GROUND PLATE	ANK-142		C2740			CEHAT101M2C		
CN2201 15P	PLUG	KM250MA15		00704			OFILATOOANAGE		
				C2704 C2715			CEHAT221M25		
n,	N.D. CO.			C2715 C2746			CEHAT331M16 CEHAT331M25		F
[Y DRIVE SCA	_			C2746 C2723, C27	751		CEHAT470M16		
SEMICONDU				C2712			CEHAT471M35		
	2,IC2505, IC2510,IC2514			_			2		
IC2504, IC250	JO	TC74ACT540FT		20014				. .	
	5 ■	6	PDP-50	3CIVIX	7	_	8	61	
_	_	U	_		•		U		_

	Mark No.	Description	Part No.	Mark No.	Description	Part No.
	C2711		CKSRYB103K50	C8822		CEHV100M16
	-	5, C2713, C2714, C2719	CKSRYB104K16	C8804		CEHV100M35
		c, C2724, C2727, C2729	CKSRYB104K16	C8808		CEHV470M16
A		s, C2736, C2742, C2743	CKSRYB104K16	C8807		CEVNP2R2M35
	C2747-C2749	, 02/00, 02/42, 02/40	CKSRYB104K16	00007		OLVIVI ZI IZIVIOS
	02141 02140		OKOITI BIOTICIO	C8802, C8805,	C8809-C8817	CKSRYF104Z16
	C2728, C2730	•	CKSRYB471K50	C8820, C8821	00000 00017	CKSRYF104Z16
	C2707, C2738		CKSRYF104Z50	333_3, 333_1		0.10.1
	02.0., 02.00		0.10.1.1.10.1.200	RESISTORS		
	RESISTORS				R8837, R8838, R8841	RS1/16S1002D
	R2735, R2791		RS1/16S1000F	R8858	110007, 110000, 1100-11	RS1/16S1202D
	R2780		RS1/16S1103F	R8864		RS1/16S1802F
	R2715, R2728	s. R2733	RS1/16S1201F	R8828, R8829,	R8846	RS1/16S2202D
	R2787	,	RS1/16S1302F		R8839, R8840	RS1/16S4701D
	R2766		RS1/16S1501F	, ,		
				R8833, R8859		RS1/16S4702F
	R2785		RS1/16S1503F	R8832		RS1/16S5602F
	R2777, R2786	}	RS1/16S1802F	R8801, R8802		RS1/2S1R5J
	R2776		RS1/16S2702F	R8803-R8805		RS1/2S2R2J
	R2705, R2706	5, R2709, R2710, R2778	RS1/16S3002F	Other Resistors	3	RS1/16S###J
	R2781		RS1/16S3002F			
				<u>OTHERS</u>		
				CN8803 (23P (CONNECTOR)	AKM1205
	R2783		RS1/16S4701F	CN8801 (PH C	,	S3B-PH-SM3
	R2734, R2736	;	RS1/16S4702F	CN8802 (PH C		S8B-PH-SM3
	R2779		RS1/16S5102F	,	,	
	R2773		RS1/16S5601F			
	R2784		RS1/16S5602F	SUB AD	DRESS B ASS	SY
				SEMICONDUC		•
	R2782		RS1/16S6801F			145000 4 FD
		, R2748-R2753	RS1/16S9102F	IC8901, IC8902	2, IC8904	M5223AFP
	·	s, R2767, R2770	RS1/2S102J	IC8903		TC74VHC74FT
	R2788, R2792		RS1/2S561J	Q8902	00000	2SA1163
	R2771, R2772		RS1/2S823J	Q8904, Q8905	, Q8908	2SC2712
	D		D0011450501	Q8906		2SK209
	R2712	700 (41)	RS3LMF272J	D8901-D8903,	D8000	1SS355
	VR2702, VR27	` ,	ACP1089	D8906, D8907	D0909	DA227
	VR2701 (2.2k)		ACP1090	D8908, D8907		UDZ27B
	Other Resistor	'S	RS1/16S###J	D8904		UDZS5.1B
	OTHERS			20001		05200.15
			DMDOODOCOENII	COILS AND F	ILTERS	
•	2001 SCREW		PMB30P060FNI	L8901	<u>ILI LITO</u>	ATH1074
				L8902, L8903		ATH1081
	CL OT	CONNECTOR A	CCV	20002, 20000		71111001
		CONNECTOR AS	55 T	CAPACITORS		
	<u>OTHERS</u>			C8906		CCSRCH101J50
	CN8102 (SOC		AKP1219	C8922		CEHV100M16
	,	SOCKET 120P)	AKP1220	C8904		CEHV100M35
	KN8101, KN81	102 (GROUND PLATE)	ANK1664	C8908		CEHV470M16
				C8907		CEVNP2R2M35
				3000.		<u></u>
	SUB AI	DDRESS A ASS	SY	C8902, C8905,	C8909-C8917	CKSRYF104Z16
	SEMICONDU	CTORS		C8920, C8921		CKSRYF104Z16
	IC8801, IC880		M5223AFP	-,		-
	IC8803	_, 100007	TC74VHC74FT	RESISTORS		
	Q8802		2SA1163		R8937, R8938, R8941	RS1/16S1002D
	Q8804, Q8805	5. Q8808	2SC2712	R8958		RS1/16S1202D
	Q8806	.,	2SK209	R8964		RS1/16S1802F
			-:	R8928, R8929,	R8946	RS1/16S2202D
	D8801-D8803,	, D8809	1SS355		R8939, R8940	RS1/16S4701D
	D8806, D8807		DA227	, ,		
	D8808		UDZ27B	R8933, R8959		RS1/16S4702F
	D8804		UDZS5.1B	R8932		RS1/16S5602F
				R8901, R8902		RS1/2S1R5J
	COILS AND F	ILTERS		R8903-R8905		RS1/2S2R2J
	L8801	_	ATH1074	Other Resistors	3	RS1/16S###J
	L8802, L8803		ATH1081			
	,			<u>OTHERS</u>		
	CAPACITORS	6		CN8903 23P C	ONNECTOR	AKM1205
	C8806	_	CCSRCH101J50	CN8901 PH CO	ONNECTOR	S3B-PH-SM3
	62			503CMX		
	1		2	3	_	4
	<u> </u>		_	Ç	·	•

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Mark No. E CN8902 PH CONN	Description NECTOR	Part No. S8B-PH-SM3		Description 107, R1110, R1113, R1114 121, R1124, R1127, R1129 stors	Part No. RAB4C472J RAB4C472J RS1/16S###J	Δ
THERMAL	L SENSOR AS	SSY		TOIS	ΠΟ 1/ 100 πππο	Α
SEMICONDUCTO	<u> DRS</u>		OTHERS K1101-K110	04, K1107, K1108 TEST PIN	1 VITAUUUS	
IC8351 IC8352		LM50CIM3 M5223AFP	X1101-X110 X1101 25MI		ASS1160	
CAPACITORS						
C8356		CEV470M6R3	[MODULE U	COM BLOCK]		
C8354 C8351, C8355		CKSRYB103K50 CKSRYF104Z16	SEMICOND			
C8352, C8353		CKSRYF105Z10	IC1204 IC1208		24LC04B(I)SN PST9246N	
RESISTORS			IC1202		TC74VHC08FT	В
R8354, R8358		RS1/16S1001F	IC1201 IC1205		TC74VHC21FT TC74VHC541FT	D
Other Resistors		RS1/16S###J				
			IC1203 IC1206		TC74VHCT541AFT TC7W126FU	
DICITAL V	/IDEO ASSY		D1201, D12	202	1SS355	
[INTERFACE BLOC			CAPACITOR	ne		
SEMICONDUCTO	-		C1213, C12		CCSRCH470J50	
IC1001-IC1008		TC74VHC541FT	C1235, C12	236	CCSRCH7R0D50	
COILS AND FILT	FRS		C1225, C12 C1201-C12	232 03, C1206-C1211	CEV470M6R3 CKSRYB102K50	
F1001-F1006	LIIO	ATF1194		16, C1218, C1219	CKSRYB102K50	С
CAPACITORS			C1223, C12	224, C1226, C1227, C1229	CKSRYB102K50	-
CAPACITORS C1001-C1008		CKSRYF104Z16	C1237, C12	238, C1241, C1242, C1247	CKSRYB102K50	
			C1234 C1233		CKSRYB103K50 CKSRYB472K50	
RESISTORS R1044		RAB4C101J		205, C1212, C1217	CKSRYF104Z16	
R1044 R1001-R1007, R10)36, R1063-R1069	RAB4C103J	C1991 C19	222, C1228, C1230, C1231	CKSRYF104Z16	
R1008-R1017, R10	019, R1020, R1027 035, R1037, R1038	RAB4C470J	· ·	240, C1246, C1248-C1250	CKSRYF104Z16	
R1032, R1034, R10 R1040-R1043, R10		RAB4C470J RAB4C470J	DEGIGTOD!	6		
	•	D 4 D 4 O 4 7 O I	RESISTORS R1209, R12		RAB4C101J	
R1051-R1054 Other Resistors		RAB4C470J RS1/16S###J	R1242	,	RAB4C103J	D
			R1207 R1213, R12	216	RAB4C123J RAB4C473J	
OTHERS CN1003. CN1004 5		AKM1201	Other Resis		RS1/16S###J	
K1001 TEST PIN		AKX9002	<u>OTHERS</u>			
CN1001 PH CONN	ECTOR	B12B-PH-SM3	X1201		ASS1159	_
			CN1203		B3B-PH-SM3	
TRANSL LICOM DI	COM		CN1201, CN	V1202	CKS3130	
[PANEL UCOM BLO			IDIOITAL DI	201/3		
IC1101	<u>////</u>	HD64F2328VF	[DIGITAL BL			
IC1103 IC1102		NC7SZ08P5 PST9228N	IC1802	0010110	FS781BZB	Е
Q1101, Q1103		DTC143EK	IC1704	1404	NC7SZ08P5	
D1101		AEL1171	IC1301, IC1 IC1703	401	PD6358A PE5064A	
CAPACITORS			IC1501, IC1	502, IC1601, IC1602	TC74VCX541FT	
C1123, C1124		CCSRCH7R0D50	IC1702, IC1	801	TC74VHC541FT	
C1101 C1102, C1109, C11	110. C1112-C1116	CEV101M4 CKSRYB102K50	IC1803		TC74VHC74FT	_
C1129-C1132	10, 5	CKSRYB102K50	IC1701 D1301-D130	05	TC74VHCT541AFT 1SS226	
C1117, C1121		CKSRYB103K50			1000	
C1120		CKSRYB472K50	COILS AND		ATE 1104	
C1103-C1108, C11 C1122, C1125-C11	· ·	CKSRYF104Z16 CKSRYF104Z16	F1301-F130 F1601-F160	04, F1501-F1505 05	ATF1194 ATF1194	F
,	28	CKSKIF104210				
<u>RESISTORS</u>			CAPACITOR C1807	<u>3S</u>	CCSRCH271J50	
			01007		00011011271000	

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	1	-	2
	Mark No.	<u>Description</u>	Part No.
	C1802	406 61400 61711	CEV100M16
Α	C1806	406, C1422, C1711 604-C1608, C1712	CEV101M4 CEV101M4 CKSRYB102K50
	C1303-C1305, C1		CKSRYF104Z16
	C1323-C1336, C1	403-C1405	CKSRYF104Z16
_		423-C1436, C1501 603, C1701-C1710	CKSRYF104Z16 CKSRYF104Z16
	C1713, C1803-C1	805	CKSRYF104Z16
	RESISTORS R1502, R1517, R1	606. R1622	RAB4C101J
	R1307, R1310-R1	315, R1317, R1318 326-R1344, R1407	RAB4C220J
В	R1410-R1415, R1	417, R1418	RAB4C220J RAB4C220J
	R1421, R1422, R1		RAB4C220J
	R1501, R1514, R1 R1703-R1709, R1	607, R1627, R1701 712-R1717	RAB4C470J RAB4C470J
_	R1551, R1552 Other Resistors		RS1/2S680J RS1/16S###J
	OTHERS		
	CN1701 50P CON		AKM1201
	(55P CONNECTO		AKM1202
С	(55P CONNECTO		AKM1202
	K1301, K1302, K1 (TEST PIN)	308, K1311-K1314	AKX9002
	K1316, K1321, K1 (TEST PIN)	324, K1326-K1331	AKX9002
	K1333, K1501, K1	502, K1601, K1602	AKX9002
_	(TEST PIN) K1728, K1729 (TE	ST PIN)	AKX9002
	X1801 (50.000MH	z) (PH CONNECTOR)	ASS1146 B8B-PH-SM3
	CN1301 (8P PLUC		CKS3130
D	CN1702 (30P CON	NNECTOR)	KF050HA30L
	[D-D CONVERTER	R BLOCK]	
	SEMICONDUCTO Q1902, Q1905, Q		2SC2712
	Q1903		DTC143EK
	Q1901, Q1904, Q1 D1903-D1906, D1		HN1C01FU 1SS355
	D1908		HZU2.2B
_	D1902, D1909 D1907		UDZ3.6B UDZS5.1B
E	D1901		UDZS6.8B
	CAPACITORS	010	CEV/220M16
	C1904, C1906, C1 C1901-C1903, C1	905, C1907-C1911	CEV220M16 CKSRYF104Z16
	RESISTORS		
	R1935, R1936 Other Resistors		RS1/2S680J RS1/16S###J
	OTHERS		
F	K1901-K1906 (TE		AKX9002
•	1901 (DC-DC CON CN1901 (PH CON		AXY1060 B13B-PH-SM

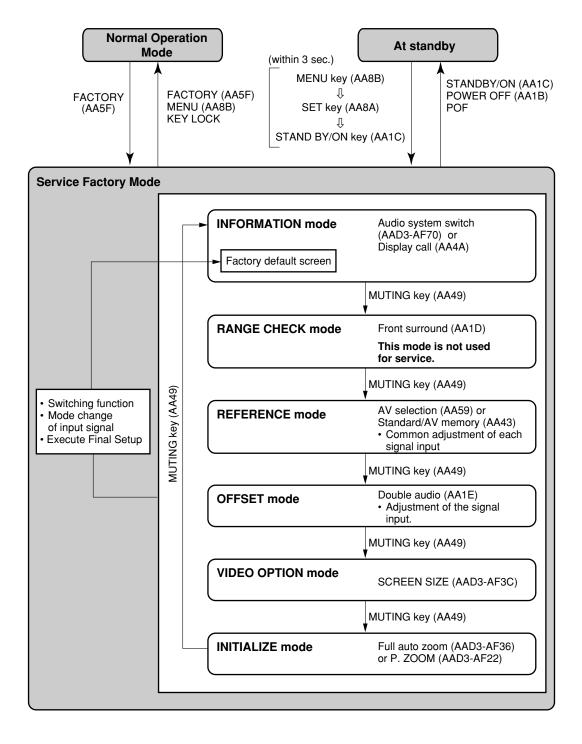
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6.1 SERVICE FACTORY MODE

Commands in Service Factory mode must be issued using the remote control unit (AXD1459) supplied with the Plasma Display.

6.1.1 State Transition Diagram



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2 3 4 STANDBY SCREEN AUTO SET UP (1) (2) (3) 4 (5) POINT В SET MUTING _VOLUME_ PLASMA DISPLAY AXD1459 С • AXD1459 (PDP-503CMX) メニュー操作 / テレビ DVD 外部機器 / LD DVD POWER POWER MENU SCREEN DISPLAY CALL SIZE SCREEN SIZE BS5 BS7 BS9 BS11 **FULL AUTO** FULL AUTO SET 1 2 (3) ZOOM ZOOM 4 5 6 DISPLAY CALL Try D D 7 8 9 SURROUND MUTE MODE 11 (12) MUTE SOUND AUDIO VOLUME SOUND MENU AV MEMORY VOLUME 1)(2)(3)(4) SURROUND MPX MODE AV SELECT 5 (6) (7) (8) AUDIO MPX 9 (10) (11) (12) BS1 BS3 BS5 BS7 SET BS 9 BS 11 BS 13 BS 15 Ε () PIONEER WIDE PLASMA DISPLAY REMOTE CONTROL UNIT • AXD1432 • AXD1673 (PDP-501HD) (PDP-502HD) PDP-503CMX 66 2

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- In this manual, keys that are not on the remote control unit (AXD1459) supplied with the Plasma Display are designated as direct-select keys.
- To select items in Service Factory mode with the AXD1459, press the following keys as many times as required:

For selection of main items: MUTE key

For selection of other items: ▲ (UP) or ▼ (DOWN) key

■ Change of Settings When Entering Service Factory Mode

1) Settings of MENU mode

• The settings for PICTURE items are reset to the center values.

Note: The PICTURE adjustment values to be reset are limited to the following:

For VIDEO: Those for the current signal mode of the selected input function

For a PC: Tables A-H are reset according to the history of the input signal mode

• All settings for SCREEN items are reset to the center values.

Note: The SCREEN adjustment values to be reset are only those for the current signal mode of the selected input function.

This is because the adjustment values of the MENU mode can be reset to the center values by executing FINAL SETUP or PICTURE DEFAULT.

• The settings for SETUP and OPTION of the MENU mode are maintained, except for the following:

COLOR TEMP: It is reset to MIDDLE.

AUTO POWER OFF/POWER MANAGEMENT: The settings are maintained, but these functions do not work.

2 Adjustment values of the Integrator mode

• The following adjustment values for PICTURE and WHITE BAL are reset to the default values:

Note: The PICTURE and WHITE BAL adjustment values to be reset are limited to the following:

For VIDEO: Those for the current signal mode of the selected input function

For a PC: Tables A-H are reset according to the history of the input signal mode.

- The SCREEN settings are maintained.
- The settings for SETUP and OPTION of the Integrator menu are maintained, except for the following:

SIDE MASK LEVEL: The adjustment values are reset to the default values.

FULL MASK that has been set in Integrator mode: Released

OFF TIMER: Released

• The COLOR MODE (Integrator menu) settings that have been set in the Integrator menu are maintained.

3 Others

• If the input signal mode is changed in Service Factory mode, settings are changed according to the input signal mode, Service Factory mode is maintained, and its default display (INFORMATION VERSION) appears.

Note: When the input signal mode is changed, settings are reset as shown in ① and ② above.

• If FUNCTION switching is executed in Service Factory mode, the function is switched to the selected one, Service Factory mode is maintained, and its default display (INFORMATION VERSION) appears.

Note: When the FUNCTION is changed, settings are reset as shown in ① and ② above.

- The COLOR DETECT setting is performed based on the COLOR SYSTEM selected in MENU mode.
- Only the data at addresses 0100 to 01FF of the module microcomputer/EEPROM are copied (updated) to the module microcomputer area of the main microcomputer EEPROM.
- Various panel protection functions (still-picture detection, block-brightness detection, SCAN IC protection function) are deactivated.

 Note: The protection functions are kept deactivated even after you exit Service Factory mode. To reactivate these functions, after exiting Service Factory mode, be sure to turn the power off, then back on.
- While there is no input, The partial setting, or while incompatible PC signals are input, settings that are not dependent on the signal mode can be performed. (For the MASK setting, see "MASK 1," and "MASK 2.") The setting items that are dependent on the input signal mode are grayed on the display and cannot be changed.

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6.1.2 Table of Adjustment Items in Service Factory

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range [OFFSET Reference Value]
	YDL	Y-DELAY	YDL	REF/OFS-SLOT-1	0 to 15 [8]
	YOUTLEV	Y-OUT LEVEL	YOL	REF/OFS-SLOT-2	0 to 63 [32]
CD	TINT	CD TINT	CTI	REF/OFS-SLOT-3	0 to 63 [32]
	CrOFFSET	CDR OFFSET	CDR	REF/OFS-SLOT-4	0 to 15 [8]
	CbOFFSET	CDB OFFSET	CDB	REF/OFS-SLOT-5	0 to 15 [8]
EXP	R-Y_LEVEL	R-Y LEVEL	LRY	REF/OFS-SLOT-6	0 to 255 [128]
LAP	B-Y_LEVEL	B-Y LEVEL	LBY	REF/OFS-SLOT-7	0 to 255 [128]

RGB1

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range [OFFSET Reference Value]
	PICTURE	MAT CONT	MCT	REF/OFS-RGB1-1	0 to 63 [32]
MATRIX	BRIGHT	MAT BRIGHT	MBR	REF/OFS-RGB1-2	0 to 63 [32]
IVIATRIA	COLOR	MAT COLOR	MCL	REF/OFS-RGB1-3	0 to 63 [32]
	HUE	MAT TINT	MTI	REF/OFS-RGB1-4	0 to 63 [32]
	MAINCONTRAST	AD MAIN CONT	MCA	REF/OFS-RGB1-5	0 to 255 [128]
	SUBRCONTRAST	AD R HIGH	GHA	REF/OFS-RGB1-6	0 to 255 [128]
	SUBGCONTRAST	AD G HIGH	BHA	REF/OFS-RGB1-7	0 to 255 [128]
AD	SUBBCONTRAST	AD B HIGH	RHA	REF/OFS-RGB1-8	0 to 255 [128]
	BRIGHTR	AD R LOW	GLA	REF/OFS-RGB1-9	0 to 255 [128]
	BRIGHTG	AD G LOW	BLA	REF/OFS-RGB1-10	0 to 255 [128]
	BRIGHTB	AD B LOW	RLA	REF/OFS-RGB1-11	0 to 255 [128]

RGB2

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range [OFFSET Reference Value]
IC102	COLOR	COLOR	COL	REF/OFS-RGB2-1	0 to 255 [128]
W/B	TINT	TINT	TNT	REF/OFS-RGB2-2	0 to 255 [128]
	MCONTRAST	CONTRAST	CNT	REF/OFS-RGB2-3	0 to 255 [128]
	MBRIGHT	BRIGHT	BRT	REF/OFS-RGB2-4	0 to 255 [128]
	R HIGH	R. HIGH	RHI	REF/OFS-RGB2-5	0 to 255 [255]
IC30	G HIGH	G. HIGH	GHI	REF/OFS-RGB2-6	0 to 255 [255]
W/B	B HIGH	B. HIGH	BHI	REF/OFS-RGB2-7	0 to 255 [255]
	R LOW	R. LOW	RLW	REF/OFS-RGB2-8	0 to 255 [128]
	G LOW	G. LOW	GLW	REF/OFS-RGB2-9	0 to 255 [128]
	B LOW	B. LOW	BLW	REF/OFS-RGB2-10	0 to 255 [128]

DIGITAL

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	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range [OFFSET Reference Value]
	PANEL R-HIGH	PANEL R-HIGH	PRH	REF/OFS-DIGITAL-1	0 to 255 [255]
	PANEL G-HIGH	PANEL G-HIGH	PGH	REF/OFS-DIGITAL-2	0 to 255 [255]
	PANEL B-HIGH	PANEL B-HIGH	PBH	REF/OFS-DIGITAL-3	0 to 255 [255]
	PANEL R-LOW	PANEL R-LOW	PRL	REF/OFS-DIGITAL-4	0 to 999 [512]
	PANEL G-LOW	PANEL G-LOW	PGL	REF/OFS-DIGITAL-5	0 to 999 [512]
	PANEL B-LOW	PANEL B-LOW	PBL	REF/OFS-DIGITAL-6	0 to 999 [512]
DIGITAL	ABL LEVEL	ABL LEVEL	ABL	REF/OFS-DIGITAL-7	0 to 255 [128]
	X-SUS-B	X-SUS-B	XSB	REF-DIGITAL-8	4 to 12
	X-SUS-G	X-SUS-G	XSG	REF-DIGITAL-9	4 to 12
	Y-SUS-B	Y-SUS-B	YSB	REF-DIGITAL-10	4 to 12
	Y-SUS-G	Y-SUS-G	YSG	REF-DIGITAL-11	4 to 12
	V-SUS	V-SUS	VSU	REF-DIGITAL-12	0 to 255
	V-OFFSET	V-OFFSET	VOF	REF-DIGITAL-13	0 to 255

SIDE MASK LEVEL (VIDEO OPTION)

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range [OFFSET Reference Value]
	R SIDE MASK LEV	R SIDE MASK LEV	RSL	VOP-M LEV-1	0 to 255
IC30	G SIDE MASK LEV	G SIDE MASK LEV	GSL	VOP-M LEV-2	0 to 255
	B SIDE MASK LEV	B SIDE MASK LEV	BSL	VOP-M LEV-3	0 to 255

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COLOR TEMP (VIDEO OPTION)

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range [OFFSET Reference Value]
IC102	COLOR	COLOR		VOP-CT-3	0 to 255 [128]
10.102	TINT	TINT		VOP-CT-4	0 to 255 [128]
	MCONTRAST	CONTRAST		VOP-CT-1	0 to 255 [128]
	MBRIGHT	BRIGHT		VOP-CT-2	0 to 255 [128]
	R HIGH	R. HIGH		VOP-CT-5	0 to 255 [255]
IC30	G HIGH	G. HIGH		VOP-CT-6	0 to 255 [255]
1030	B HIGH	B. HIGH		VOP-CT-7	0 to 255 [255]
	R LOW	R. LOW		VOP-CT-8	0 to 255 [128]
	G LOW	G. LOW		VOP-CT-9	0 to 255 [128]
	B LOW	B. LOW		VOP-CT-10	0 to 255 [128]

COLOR MODE2 (VIDEO OPTION)

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range [OFFSET Reference Value]
IC102	COLOR	COLOR		VOP-CM2-3	0 to 255 [128]
10.102	TINT	TINT		VOP-CM2-4	0 to 255 [128]
	MCONTRAST	CONTRAST		VOP-CM2-1	0 to 255 [128]
	MBRIGHT	BRIGHT		VOP-CM2-2	0 to 255 [128]
	R HIGH	R. HIGH		VOP-CM2-5	0 to 255 [255]
IC30	G HIGH	G. HIGH		VOP-CM2-6	0 to 255 [255]
1000	B HIGH	B. HIGH		VOP-CM2-7	0 to 255 [255]
	R LOW	R. LOW		VOP-CM2-8	0 to 255 [128]
	G LOW	G. LOW		VOP-CM2-9	0 to 255 [128]
	B LOW	B. LOW		VOP-CM2-10	0 to 255 [128]

■Calculation of Adjustment Value in Service Factory Mode

• An actual adjustment value in Service Factory mode is the addition of the REFERENCE adjustment value and OFFSET adjustment value, subtracted by the OFFSET reference value (values indicated in brackets in the above tables).

Note: As for the items that do not have OFFSET adjustment values (R SIDE MASK LEV, G SIDE MASK LEV, as well B SIDE MASK LEV of the SIDE MASK LEVEL items, and X-SUS-B, X-SUS-G, Y-SUS-B, Y-SUS-G, V-SUS, and V-OFFSET of the DIGITAL items), the REFERENCE adjustment value becomes the actual adjustment value.

• As for COLOR MODE 2 and COLOR TEMP, the adjustment value of the selected mode subtracted by its OFFSET reference value (value indicated in brackets in the above tables) becomes the OFFSET value. Adding this value to the adjustment value of each adjustment item in RGB2 becomes the final adjustment value for the RGB2 devices (IC30 and IC102).

■ Actual Calculation Examples

• Each adjustment value of SLOT/ RGB 1/RGB2/DIGITAL (REFERENCE value)

+ { (OFFSET value) – [OFFSET reference value] } ... Calculation of a value to be added as OFFSET

• COLOR MODE2 OFFSET value

{ (COLOR MODE2 adjustment value) - [OFFSET reference value] } ... Calculation of a value to be added as OFFSET for COLOR MODE2 Note: Add it only when COLOR MODE2 is selected.

• COLOR TEMP OFFSET value

{(COLOR TEMP adjustment value) - [OFFSET reference value] } ... Calculation of a value to be added as OFFSET for COLOR TEMP Note: Add it only when COLOR TEMP 1,2,4, or 5 is selected.

Perform the addition in the normal operation, menu mode and COLOR TEMP adjustment mode of the Service Factory mode (in item VIDEO OPTION), and add the OFFSET value of the selected setting.

The addition of the COLOR TEMP OFFSET value is not needed in Integrator mode or in Service Factory mode (except for COLOR TEMP adjustment mode,) because the unit operates with the COLOR TEMP 3 settings.

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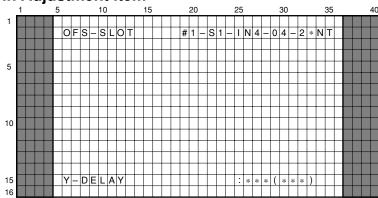
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6.1.3 Description of Service Factory Menu Display

1. In Adjustment Item



Display color: White

Halftone : Blue (second line/15th line for each 5 to 36 columns) When the input signal mode is not identified, the

adjustment value is displayed with

" (———)", and the item indication is grayed.

• Second line / 6th to 16th columns : Display the higher layer of selection item • • • In Service Factory mode

Second line / 6th to 7th columns : Display the ID No. • • • In RS-232C Factory mode

Second line / 9th to 16th columns : Display the higher layer of selection item • • • In RS-232C Factory mode

- Second line / 19th to 20th columns: Current color mode setting
- Second line / 22th to 23th columns: Current slot type

	Slot Type or Model Type	PDA-5002	PDP-503PRO and PRO-1000HD	Slot Manufactured by Other Vender	No SLOT
Г	Display	S1	US	T1 to T8	NO

- Second line / 25th to 27th columns: Current function
- Second line / 29th to 32th columns : Current signal mode
- Second line / 32th columns: Current Screen size (See "Classification of input signal" for details in each value.)

Signal mode displays for mode 03, mode 31, mode E1, mode 61 or mode 71

	<u> </u>
Setting	Signal Mode Display
VIDEO	03
VGA	31
WVGA	E1
XGA	61
WXGA	71

Signal mode displays for mode 12 or mode 13

HDTV Mode Setting (Integrator Menu)	Signal Mode Display
1080i	12
1035i	13

Display in the no signal and incompatible signal

Signal Mode Display	Signal Definition					
FB	FB OUT OF RANGE (Signal that cannot be measured with the main microcomputer)					
FC	OUT OF RANGE (Video system signal without video signal)					
FD	OUT OF RANGE (Incompatible signal at DVI input)					
FE	FE OUT OF RANGE (Incompatible signal that is measurable with the main microcomputer, and not applicable to FC and FD)					
FF No signal						

• Second line / 33th column : Current input form

Input Form	Component	Video-RGB	Composite	Y/C
Display	#	@	*	/

Non-display (blank) excepting above form.

Second line / 34th to 35th columns: Current color system

Color System	NTSC	PAL	SECAM	4.43NTSC	PAL-M	PAL-N	BLACK/WHITE
Display	NT	PL	SC	4N	PM	PN	BW

Non-display (blank) in a case of a color system other than those mentioned above or when the COLOR SYSTEM setting is fixed.

- 15th line / 6th to 24th columns : Current item selection
- 15th line / 26th to 35th columns:

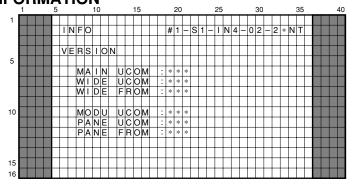
When RANGE CHECK is selected: Current selecting value

- 1. When REFERENCE is selected : Adjustment value
- 2. When OFFSET is selected : OFFSET value (adjustment value) * Adjustment value is REFERENCE value + OFFSET value.
- 3. When VIDEO OPTION is selected: No display
 - When INITIALIZE is selected : Selected setting. (No display for an item having the lower layer.)

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2. INFORMATION



Basic Operation

• Display the state of each item

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	VERSION		Main, Wide, module and panel microcomputers : Ver Wide flash (OSD) / Panel flash (Sequence) : Ver	×
AA02	2	PD INFO		Past eight times / Place (1st, 2nd) / Time Stamp	×
AA03	3	NG INFO	Display of information for each item	AUDIO/FAN/MODULE/PANEL/WIDE/ MAIN IIC/MODULE IIC/DEW	×
AA04	4	TEMPERATURE	cacinitein	1/2/3/FAN output	×
AA05	5	MEMO		Display MEMO	×
AA06	6				
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				1
AA54	BS15				
AA96	A	Selection of upper items			1
AA97	▼	Selection of lower items			
AA94	>>				
AA95	«				1
AA8A	SET				
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE	5016611.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shifting to next adjustment / setting screen.	RANGE CHECK		

Operating specifications

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When this mode is entered, the VERSION display (the function called by pressing the "1" key) is displayed first.
When any of the above keys are pressed, the corresponding operation is executed.
Note: The VERSION display is the default display for Service Factory mode.

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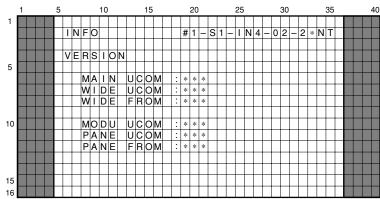
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3. OSD Display in INFORMATION

(1) VERSION

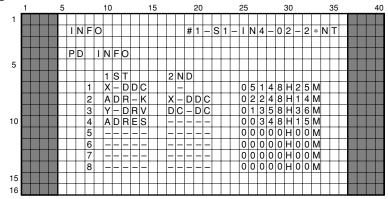


2 PD INFO.

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The power down point (1st or 1st and 2nd) and an hour meter at the time of the power down are displayed.

Up to eight power-downs are displayed. If the number of power-downs becomes more than 8, the latest data are added, and the oldest data are cleared.

Display details at PD INFORMATION

		Display	PD Point		Display	PD Point
	1	X-DRV	X-DRIVE	5	ADRES	ADDRESS junction
	2	X-DDC	X-DC/DC CONVERTER	6	ADR-K	ADDRESS resonance
	3	Y-DRV	Y-DRIVE	7	POWER	Power supply
Г	4	Y-DDC	Y-DC/DC CONVERTER	8	DC-DC	DC/DC CONVERTER (DIGITAL)

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(3) NG INFO.

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	1		5					10					15				20	1				25					30					35			40
1													Г																					П	
				1	Ν	F	0									#	1	_	S	1	_	I	Ν	4	_	0	2	_	2	*	Ν	Т			
				Ν	G		ı	Ν	F	0																									
5																																			
						1		W	1	D	Ε																								
						2		W	Τ	D	Ε	Г	Г		Г										Г	П									
						3		М	0	D	U	L	Ε																						
						4		M	Α	1	Ν		Τ	ī	С																				
10						5		-	-	-		Г	Г		Г										Г	П									
						6		-	-	_			Г																						
						7		_	_	_																									
						8		_	_	_		Г	Г													П									
													Г																						
15																																			
16																																			

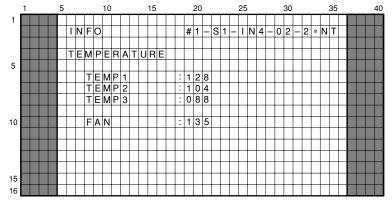
The shutdown point is displayed.

Up to eight shutdown points are displayed. If the number of shutdowns becomes more than 8, the latest data are added, and the oldest data are cleared.

Display details at NG INFO

Display	Shutdown Point	Display	Shutdown Point
PANEL	Communication failure of the panel microcomputer	MODULE	Communication failure of the module microcomputer
MOD IIC	Communication failure of the module IIC	WIDE	Wide microcomputer
DEW	Condensation	MAIN IIC	Communication failure of the main IIC
TEMP	Abnormally high temperature	AUDIO	Failure in audio system
FAN	Failure in fans		

4 TEMPERATURE



• Indicated values are those for microcomputer A/D input or D/A output (0 to 255).

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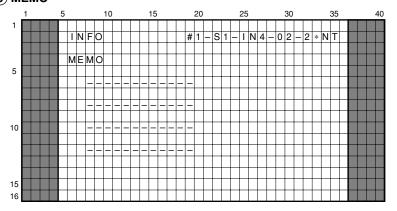
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- Temperature sensors 1, 2 and 3
- FAN

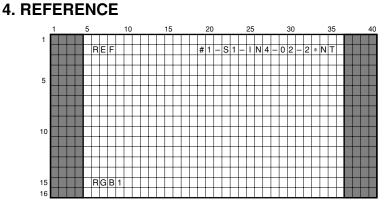
Note: Refer to "Shutdown diagnosis" in the "7.1.2 DIAGNOSIS FOR SHUTDOWN AND POWER-DOWN BY LED" to calculate real sensor temperature from each indicated value.

(5) MEMO

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Display color: White

Halftone : Blue (Second line / 15th line

for each 5th to 36th columns)

Basic Operation

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· Select the adjustment table

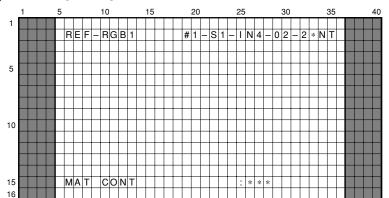
Rem Code	Key Name	Function & Display	Description	Remarks	Lowe Laye
AA01	1	RGB1			0
AA02	2	RGB2	Selection of the		0
AA03	3	DIGITAL	adjustment table		0
AA04	4	SLOT			0
AA05	5				
AA06	6				
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>				
AA95	«				
A8AA	SET	Selection of the item and shift to lower layer			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shifting to next adjustment /setting screen	OFFSET		

Operating specifications

- Operating specifications
 If this setting screen is displayed when the unit is shifted from another mode, the RGB1 display (the function called by pressing the "1" key) is displayed first. If the unit is shifted back from a lower-layer display of this setting screen, the originally selected item will be displayed.
 When any of the above keys is pressed, the corresponding operation is executed.
 When INPUT5 (DVI) is selected, the RGB1 and SLOT items cannot be selected. (These displays are not skipped during item selection.)
 When a slot is not inserted, or when a slot manufactured by other vendor is inserted, the SLOT item cannot be selected. (The display is not skipped during item selection.)
 Items that cannot be selected are grayed on the display.

1 REFERENCE — RGB1

5



6

Display color : White

: Blue (second line / 15th line for Half tone

each 5 to 36th columns)

8

Α

В

С

D

Ε

Basic Operation

Rem Code	Key Name	Function & Display	Description	Remark	Lower Layer
AA01	1	MAT CONT			×
AA02	2	MAT BRIGHT			×
AA03	3	MAT COLOR			×
AA04	4	MAT TINT			×
AA05	5	AD MAIN CONT	Retrieval and		×
AA06	6	AD R HIGH	display of the		×
AA07	7	AD G HIGH	adjustment value		×
AA08	8	AD B HIGH			×
AA09	9	AD R LOW			×
AA00	10	AD G LOW			×
AA46	11	AD B LOW			×
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value of	of the selected parameter		
AA95	«	Decreasing the adjustment value of	of the selected parameter		
AA8A	SET	Storing the adjustment value and shi	fting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE	3010011	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM	1	INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen.	OFFSET		

Operating specifications

- When this mode is entered, the MAT CONT display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.
 When the input signal mode is not identified, the adjustment value is displayed with "_____," and the item indication is grayed.

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5

2 REFERENCE — RGB2

Display color : White

3

Half tone : Blue (second line / 15th line for

each 5 to 36th columns)

Basic Operation

В

С

D

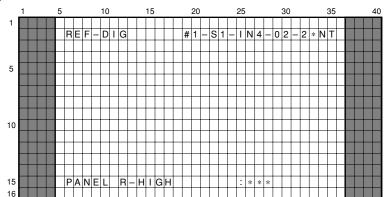
Е

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	CONTRAST			×
AA02	2	BRIGHT			×
AA03	3	COLOR			×
AA04	4	TINT			×
AA05	5	R HIGH	Retrieval and		×
AA06	6	G HIGH	display of the		×
AA07	7	B HIGH	adjustment value		×
AA08	8	R LOW			×
AA09	9	G LOW			×
AA00	10	B LOW			×
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value o	f the selected parameter		
AA95	«	Decreasing the adjustment value of	f the selected parameter		
A8AA	SET	Storing the adjustment value and shift	iting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen.	OFFSET		

Operating specifications

- When this mode is entered, the CONTRAST display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.
 When the input signal mode is not identified, the adjustment value is displayed with "_____," and the item indication is grayed.

3 REFERENCE — DIGITAL



Display color : White Half tone : Blue (second line / 15th line

for each 5 to 36th columns)

8

В

D

Ε

Basic Operation

Perform the adjustment of each parameter

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	PANEL R-HIGH			×
AA02	2	PANEL G-HIGH			×
AA03	3	PANEL B-HIGH			×
AA04	4	PANEL R-LOW			×
AA05	5	PANEL G-LOW	Retrieval and		×
AA06	6	PANEL B-LOW	display of the		×
AA07	7	ABL LEVEL	adjustment value		×
AA08	8	X-SUS-B			×
AA09	9	X-SUS-G			×
AA00	10	Y-SUS-B			×
AA46	11	Y-SUS-G			×
AA47	12	V-SUS			×
AA4D	BS1	V-OFFSET			×
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value of	f the selected parameter		
AA95	«	Decreasing the adjustment value of	of the selected parameter		
A8AA	SET	Storing the adjustment value and shi	fting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE	100.0011	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	OFFSET		

Operating specifications

5

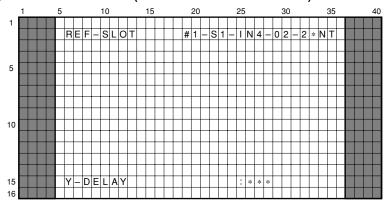
6

- When this mode is entered, the PANEL R-HIGH display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.
 When the input signal mode is not identified, the adjustment value is displayed with "_____," and the item indication is grayed.

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(4) REFERENCE — SLOT (When SLOT ST1 is connected) • This mode is effective only when SLOT ST1 is connected.



Display color: White

: Blue (second line / 15th line for each 5 to 36th columns) Half tone

Basic Operation

В

D

Ε

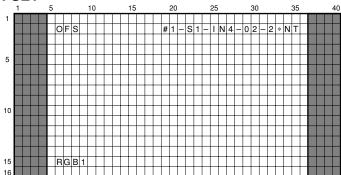
Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lowe Laye
AA01	1	Y-DELAY			×
AA02	2	Y-OUT LEVEL			×
AA03	3	CD TINT	Retrieval and		×
AA04	4	CDR OFFSET	display of the		×
AA05	5	CDB OFFSET	adjustment value		×
AA06	6	R-Y LEVEL			×
AA07	7	B-Y LEVEL			×
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value of	f the selected parameter		
AA95	«	Decreasing the adjustment value of	of the selected parameter		
AA8A	SET	Storing the adjustment value and shi	fting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE	- 50/66/1	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	OFFSET		

Operating specifications

- When this mode is entered, the Y-DELAY display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.
 When the input signal mode is not identified, the adjustment value is displayed with "_____," and the item indication is grayed.

PDP-503CMX



Display color: White

: Blue (second line / 15th line for each 5 to 36th columns) Half tone

8

Α

В

С

D

Ε

Basic Operation

Rem Code	Key Name	Function & Display	Description	Remarks	Lowe Layer
AA01	1	RGB1	-		0
AA02	2	RGB2	Selection of the		0
AA03	3	DIGITAL	adjustment table		0
AA04	4	SLOT			0
AA05	5				
AA06	6				
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>				
AA95	«				
A8AA	SET	Selection of the item and shifting to lower layer			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various adjustment / setting	REFERENCE		
AA1E	MPX	screen	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	VIDEO OPTION		

5

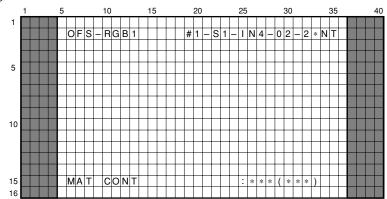
- Operating specifications
 If this setting screen is displayed when the unit is shifted from another mode, the RGB1 display (the function called by pressing the "1" key) is displayed first. If the unit is shifted back from a lower-layer display of this setting screen, the originally selected item will be displayed.

6

- When any of the above keys is pressed, the corresponding operation is executed.
 When INPUT5 (DVI) is selected, the RGB1 and SLOT items cannot be selected. (These displays are not skipped during item selection.)
 When a slot is not inserted, or when a slot manufactured by other vendor is inserted, the SLOT item cannot be selected. (The display is not skipped during item selection.)
 Items that cannot be selected are ground on the display.
- Items that cannot be selected are grayed on the display.
 Selection of each item is impossible when there is no input signal.

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1 OFFSET — RGB1



Display color : White

Half tone : Blue (second line / 15th line for

each 5 to 36th columns)

Basic Operation

В

С

D

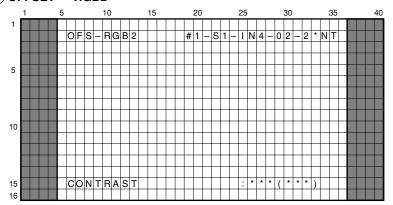
Е

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	MAT CONT			×
AA02	2	MAT BRIGHT			×
AA03	3	MAT COLOR			×
AA04	4	MAT TINT			×
AA05	5	AD MAIN CONT	Retrieval and		×
AA06	6	AD R HIGH	display of the		×
AA07	7	AD G HIGH	adjustment value		×
AA08	8	AD B HIGH			×
AA09	9	AD R LOW			×
AA00	10	AD G LOW			×
AA46	11	AD B LOW			×
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value of	f the selected parameter		
AA95	«	Decreasing the adjustment value of	f the selected parameter		
AA8A	SET	Storing the adjustment value and shi	fting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE	-	RANGE CHECK		
AA59	AV SELECT				
AA43	AV MEMORY	Shifting to various adjustment / setting	REFERENCE		
AA1E	MPX	screen	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	VIDEO OPTION		

Operating specifications

- When this mode is entered, the MAT CONT display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be
- When the input signal mode is not identified, the adjustment value is displayed with "___(___)," and the item indication is grayed.



Display color : White Half tone : Blue (second line / 15th line for

each 5 to 36th columns)

Α

В

D

Ε

Basic Operation

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	CONTRAST			×
AA02	2	BRIGHT			×
AA03	3	COLOR			×
AA04	4	TINT			×
AA05	5	R HIGH	Retrieval and		×
AA06	6	G HIGH	display of the		×
AA07	7	B HIGH	adjustment value		×
AA08	8	R LOW			×
AA09	9	G LOW			×
AA00	10	B LOW			×
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value of	of the selected parameter		
AA95	«	Decreasing the adjustment value of	of the selected parameter		
AA8A	SET	Storing the adjustment value and shi	fting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE	3016611	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	VIDEO OPTION		

Operating specifications

5

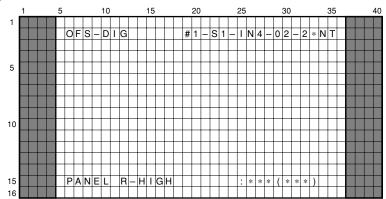
6

- When this mode is entered, the CONTRAST display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be
- When the input signal mode is not identified, the adjustment value is displayed with "___(___)," and the item indication is grayed.

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(3) OFFSET — DIGITAL



Display color: White

: Blue (second line / 15th line for each 5 to 36th columns) Half tone

Basic Operation

В

D

Ε

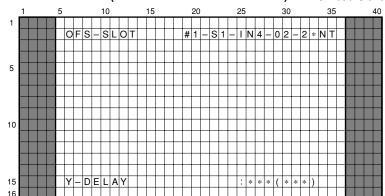
Rem Code	Key Name	Function & Display	Description	Remarks	Lowe Layer
AA01	1	PANEL R-HIGH			×
AA02	2	PANEL G-HIGH			×
AA03	3	PANEL B-HIGH			×
AA04	4	PANEL R-LOW	Retrieval and display of the		×
AA05	5	PANEL G-LOW	adjustment value		×
AA06	6	PANEL B-LOW	,		×
AA07	7	ABL LEVEL			×
AA08	8	X-SUS-B			×
AA09	9	X-SUS-G			×
AA00	10	Y-SUS-B		Selection is possible, but setting is impossible	×
AA46	11	Y-SUS-G	_		×
AA47	12	V-SUS			×
AA4D	BS1	V-OFFSET			×
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value of	f the selected parameter		
AA95	«	Decreasing the adjustment value of	f the selected parameter		
A8AA	SET	Storing the adjustment value and shi	fting to the next higher layer		
AAD3-AF70	AUDIO		INFORMATION		
AA4A	DISPLAY CALL				
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting	OFFSET		
AAD3-AF3C	SCREEN SIZE	screen	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	VIDEO OPTION		

Operating specifications

- When this mode is entered, the PANEL R-HIGH display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.
 When the input signal mode is not identified, the adjustment value is displayed with "__(___)," and the item indication is grayed.
 As the items X-SUS-B, X-SUS-G, Y-SUS-B, Y-SUS-G, V-SUS, and V-OFFSET do not have OFFSET adjustment values, making settings is not allowed. These items are grayed, and the adjustment values are displayed with "___(___)."

4 OFFSET — SLOT (When SLOT ST1 is connected) • This mode is effective only when SLOT ST1 is connected.

6



Display color: White

Half tone : Blue (second line / 15th line for

each 5 to 36th columns)

Α

В

С

D

Ε

Basic Operation

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	Y-DELAY			×
AA02	2	Y-OUT LEVEL			×
AA03	3	CD TINT	Retrieval and		×
AA04	4	CDR OFFSET	display of the		×
AA05	5	CDB OFFSET	adjustment value		×
AA06	6	R-Y LEVEL			×
AA07	7	B-Y LEVEL			×
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA 97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value o	f the selected parameter		
AA95	«	Decreasing the adjustment value of	f the selected parameter		
AA8A	SET	Storing the adjustment value and shift	iting to the next higher layer		
AAD3-AF70	AUDIO		INFORMATION		
AA4A	DISPLAY CALL				
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting	OFFSET		
AAD3-AF3C	SCREEN SIZE	screen	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	VIDEO OPTION		

Operating specifications

5

6

- When this mode is entered, the Y-DELAY display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be
- When the input signal mode is not identified, the adjustment value is displayed with "___(___)," and the item indication is grayed.

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6. VIDEO OPTION

5 10

3

Display color : White
Half tone : Blue (second line / 15th line for each 5 to 36th columns)

Basic Operation

В

D

Е

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	SIDE MASK LEV		Shift to adjustment screen of SIDE MASK LEVEL with SET (AA8A)	0
AA02	2	C MODE2		Shift to adjustment screen of COLOR MODE2 with SET (AA8A)	0
AA03	3	C TEMP LOW	Selection of the	Shift to adjustment screen of COLOR TEMP LOW with SET (AA8A)	0
AA04	4	C TEMP MID LOW	adjustment item	Shift to adjustment screen of COLOR TEMP MID LOW with SET (AA8A)	0
AA05	5	C TEMP MID HIGH	,	Shift to adjustment screen of COLOR TEMP MID HIGH with SET (AA8A)	0
AA06	6	C TEMP HIGH		Shift to adjustment screen of COLOR TEMP HIGH with +SET (AA8A)	0
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA 97	▼	Selection of lower items			
AA94	>>				
AA95	«				
AA8A	SET	Selection of the item and shift to adjustment screen			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE	00.0011	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shifting to next adjustment / setting screen	INITIALIZE		

Operating specifications

5

- If this setting screen is displayed when the unit is shifted from another mode, the SIDE MASK LEVEL display (the function called by pressing the "1" key) is displayed first. If the unit is shifted back from a lower-layer display of this setting screen, the originally selected item will be displayed.
- When any of the above keys is pressed, the corresponding operation is executed.
- COLOR MODE setting during COLOR MODE adjustment
 When Service Factory mode is entered, the settings for COLOR MODE become those that set on the Integrator menu. However, during
 COLOR MODE 2 adjustment, the unit operates in COLOR MODE 2 regardless of the settings made on the Integrator menu.
- COLOR TEMP setting during COLOR TEMP adjustment
 When Service Factory mode is entered, the setting for COLOR TEMP becomes MIDDLE regardless of the user's setting. During COLOR
 TEMP adjustment, the unit operates in the selected COLOR TEMP mode.

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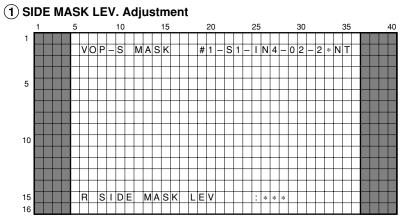
85

В

С

D

Ε



Display color : White Half tone : Blue (second line / 15th line for each 5 to 36th columns)

Basic Operation

В

D

Е

Perform the adjustment of each parameter.

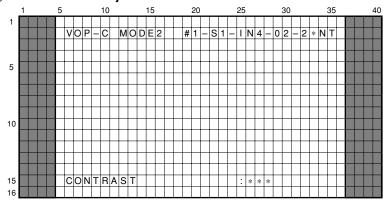
Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	R SIDE MASK LEV	Retrieval and		×
AA02	2	G SIDE MASK LEV	display of the		×
AA03	3	B SIDE MASK LEV	adjustment value		×
AA04	4				
AA05	5				
AA06	6				
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value o	f the selected parameter		
AA95	«	Decreasing the adjustment value of	f the selected parameter		
AA8A	SET	Storing the adjustment value and shift	ting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE	3010011 <u>-</u>	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	INITIALIZE		

Operating specifications

- When this mode is entered, the R SIDE MASK LEVEL display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.

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5



The color mode indicated on the second line, 35th column is the default setting and does not change according to the color mode being adjusted.

Α

В

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Ε

Display color: White

: Blue (second line / 15th line for Half tone

each 5 to 36th columns)

Basic Operation

Perform the adjustment of each parameter

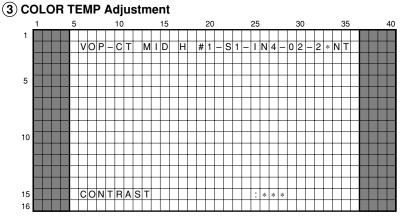
Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	CONTRAST			×
AA02	2	BRIGHT			×
AA03	3	COLOR			×
AA04	4	TINT			×
AA05	5	R HIGH	Retrieval and		×
AA06	6	G HIGH	display of the adjustment value		×
AA07	7	B HIGH	adjustificiti value		×
AA08	8	R LOW			×
AA09	9	G LOW			
AA00	10	B LOW			
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A .	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value o	f the selected parameter		
AA95	«	Decreasing the adjustment value of	f the selected parameter		
AA8A	SET	Storing the adjustment value and shift	ting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE	30,6611	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	INITIALIZE		

Operating specifications

5

- When this mode is entered, the CONTRAST display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.
- During COLOR MODE adjustment, the setting becomes COLOR MODE 2, and the adjusted value will be stored in memory, but the color mode setting will not be stored after adjustment is completed.

PDP-503CMX



2

Display color: White

3

: Blue (second line / 15th line for Half tone

each 5 to 36th columns)

Basic Operation

В

С

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F

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	CONTRAST			×
AA02	2	BRIGHT			×
AA03	3	COLOR			×
AA04	4	TINT	-		×
AA05	5	R HIGH	Retrieval and		×
AA06	6	G HIGH	display of the adjustment value		×
AA07	7	B HIGH	adjustificiti value		×
AA08	8	R LOW			×
AA09	9	G LOW			×
AA00	10	B LOW			×
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Increasing the adjustment value of	f the selected parameter		
AA95	«	Decreasing the adjustment value o	f the selected parameter		
A8AA	SET	Storing the adjustment value and shif	ting to the next higher layer		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE]	RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shifting to next adjustment / setting screen	INITIALIZE		

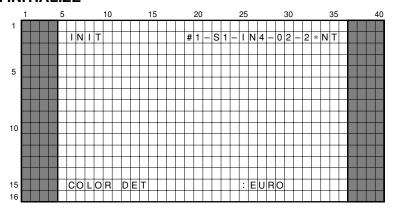
Operating specifications

- When this mode is entered, the CONTRAST display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.
 During COLOR TEMP adjustment, the unit operates with the selected COLOR TEMP setting, and the adjusted value will be stored in memory, but the COLOR TEMP setting will return to MIDDLE after adjustment is completed.

3

7. INITIALIZE

5



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7

Display color : White Half tone : Blue (second line / 15th line for each 5 to 36th columns)

8

Α

В

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Е

Basic Operation
 Perform the modification and confirmation of various settings.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	COLOR DET	→EURO→SA→ALL→		×
AA02	2	EEP CHECK	EEPROM writing check		×
AA03	3	ACL SW	$ON \leftrightarrow OFF$		×
AA04	4	INTEGRATOR MODE	>LOCK->UNLOCK->		×
AA05	5	P&P WRITE ENA	For Plug & Play EEPROM writing		×
AA06	6	HOURMETER SET	Setting the current hourmeter	Shifting to setting screen with SET (AA8A)	0
AA07	7	PULSEMETER SET	Setting the pulse hourmeter	Shifting to setting screen with SET (AA8A)	0
AA08	8	FINAL SET UP		Executing with SET (AA8A)	×
AA09	9	VIDEO STANDARD	0-1-2-3-4-5-6-7-8-9-A		×
AA00	10	PC STANDARD	0-1-2-3-4-5-6-7-8-9-A		×
AA46	11	VIDEO MODE1	→0 →1 →2 →3 →4 →5 →6 →7 →8 →9 →A		×
AA47	12	PC MODE1	→0→1→2→3→4→5→6→7→8→9→A		×
AA4D	BS1	EEP DATA READ		Shifting to setting screen with SET (AA8A)	0
AA4E	BS3	MASK1		Shifting to setting screen with SET (AA8A)	0
AA4F	BS5	MASK2		Shifting to setting screen with SET (AA8A)	0
AA50	BS7	МЕМО		Shifting to writing screen with SET (AA8A)	0
AA51	BS9	SERVICE PARTS		Executing with SET (AA8A)	×
AA52	BS11	PICTURE DEFAULT		Executing with SET (AA8A)	×
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Selection of the function			
AA95	«	Selection of the function			
AA8A	SET	Selecting the item and s the adjustment value an	hifting to lower layer, or storing d shifting to upper layer.		
AAD3-AF70	AUDIO		INFORMATION		
AA4A	DISPLAY CALL				
AA1D AA59	SURROUND MODE AV SELECT		RANGE CHECK		
AA39 AA43	AV SELECT AV MEMORY	Shifting to various	REFERENCE		
AA1E	MPX	adjustment / setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE	3016611	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	INFORMATION		

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Operating specifications

- If this setting screen is displayed when the unit is shifted from another mode, the COLOR DET display (the function called by pressing the "1" key) is displayed first. If the unit is shifted back from a lower-layer display of this setting screen, the originally selected item will be displayed
- · When any of the above keys is pressed, the corresponding operation is executed.
- As for the following items, the adjusted values will be stored in memory: COLOR DET., ACL SW, INTE. MODE, MEMO, VIDEO STANDARD, PC STANDARD, VIDEO MODE 1, PC MODE 1, HOURMETER SET, PULSEMETER SET, FINAL SETUP, MASK 1, MASK 2, and PICTURE DEFAULT.

Function description

1. COLOR DET.: The color detection system is set.

→ EURO → SA → ALL →

2. EEP CHECK: EEPROM writing is checked.

The rightmost two digits in hexadecimal notation from the results of addition of data at subaddresses 1760-177C (PDC XGA/SHARP data) of the EEPROM are displayed.

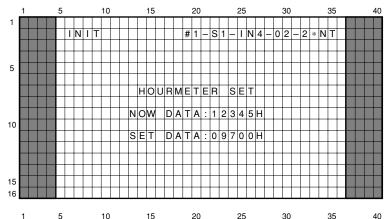
3. ACL SW: The ACL is set.

В

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- 4. INTEGRATOR MODE: The integrator protection is set.
- 5. P&P WRITE ENA: The writing permission of the EEPROM for Plug & Play is set.
- 6. HOURMETER SET: The hourmeter is displayed and set.

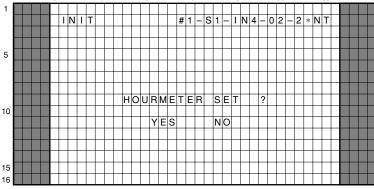


The upper three digits of SET DATA can be changed:

▲▼ : To select numbers

: To select one of the upper three digits to be changed

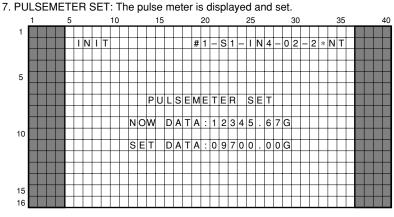
SET: To register the setting and shift to the confirmation screen for setting changes.



≪≫ : To select YES or NO

: When YES is selected, the SET DATA are stored in memory, and the initial display appears. When NO is selected, NOW DATA is maintained, and the initial display appears.

7 DI II CEMETED CET. The miles meeter is displayed and set



The upper three digits of SET DATA can be changed:

▼ : To select numbers

: To select one of the upper three digits to be changed

SET : To register the setting and shift to the confirmation screen for setting changes.

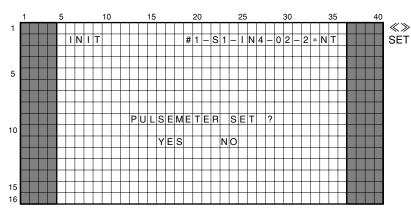
F

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3



: To select YES or NO

: When YES is selected, the SET DATA are stored in memory, and the initial display appears. When NO is selected, NOW DATA is maintained, and the initial display appears.

В

D

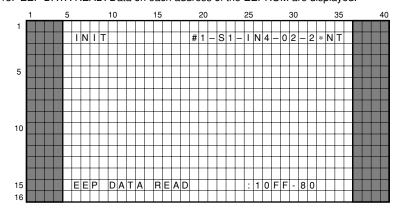
Ε

8. FINAL SETUP: Factory preset values are set. (See FINAL SETUP Details.)

- 9. VIDEO STANDARD: The peak occurrences of STANDARD (USER MENU / POWER CONTROL) in the video system signal is set. (Table 1 setting in the following table.) Note: Please do not change settings during service.
- 10. PC STANDARD: The peak occurrences of STANDARD (USER MENU / POWER CONTROL) in the PC system signal is set. (Table 2 setting in the following table.) Note: Please do not change settings during service.
- 11. VIDEO MODE1: The peak occurrences of MODE1 (USER MENU / POWER CONTROL) in the video system signal is set. (Table 3 setting in the following table.) Note: Please do not change settings during service.
- 12. PC MODE1: The peak occurrences of MODE1 (USER MENU / POWER CONTROL) in the PC system signal is set. (Table 4 setting in the following table.) Note: Please do not change settings during service.

		Current Input Signal		
		VIDEO	PC	
	STANDARD mode	Table1	Table2	
POWER CONTROL setting	MODE1	Table3	Table4	
	MODE2	PL6 (fixed)		

13. EEP DATA READ: Data on each address of the EEPROM are displayed.



≪≫ : To select a digit (four digits) of an address

▲▼ : To select numbers

SET: To shift to the next higher layer

Displayed data for each address are updated each time the address is changed.

Display color : White (Selected address is yellow)
Half tone : Blue (second line / 15th line for

each 5 to 36th columns)

- 14. MASK1: To select the full mask. (Refer to "① MASK1" .)
 - Note: The last setting for either MASK 1 or MASK 2 is stored in memory.
- 15. MASK2: To select the mask pattern. (Refer to "2 MASK2".)

Note: The last setting for either MASK 1 or MASK 2 is stored in memory.

Notes on MASK 1 and MASK 2

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- When any key is pressed, an OSD is displayed for two seconds, and during this period the full mask signal output is stopped.
- When the full mask is selected on the MASK selection menu, two seconds after the full mask is selected (with no key pressed during this period,) the displayed OSD disappears, then full mask is displayed in turn.
- To release the mask setting, use "M00" of RS-232C Factory Adjustment mode or "MASK OFF" of Service Factory menu.

 (The mask setting cannot be released with FULL MASK OFF of the Integrator menu or "FMN" of the RS-232C Factory Adjustment mode.)

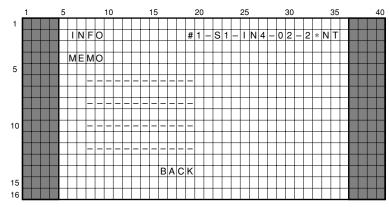
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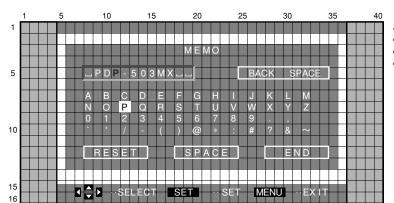
-

16. MEMO: Memo data are displayed and edited.



<MEMO/SELECT>

- With the ▲ or ▼ key, a MEMO to be edited can be selected.
 If you press the SET key, the screen shifts to MEMO/EDIT.
- · If you select BACK and then press the SET key, the screen shifts to the next higher layer.



<MEMO/EDIT>

- For details on editing, see "INPUT Label" of the user menu.
 The default display is "______". (□: Space)
- When RESET is selected, the setting is reset to the default.

17. SERVICE PARTS: The PD number of the module microcomputer is rewritten to the parts recognition number for service. See "7.1.3 AUTOMATIC BACKUP OF DIGITAL VIDEO ASSY DATA"

Parts recognition number for service: Modify the leftmost digit of the PD number to F

Example: F691 (an original PD number is 5691).

Note: Modification of the PD number to the ID number for service is needed only for the EEPROM of the module microcomputer. The ID number for service in the data area of the module microcomputer in the EEPROM of the main microcomputer must not be changed.

18. PICTURE DEFAULT

В

С

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- The data adjusted in Service Factory mode will become the new default settings for PICTURE, WHITE BAL, and SIDE MASK LEVEL of the Integrator menu.
- As long as PICTURE DEFAULT or FINAL SETUP is not executed, the settings made in Service Factory mode are not reflected in the video output data in modes other than Service Factory mode.
- To make the values adjusted during Service Factory mode go into force, PICTURE DEFAULT must be executed after adjustment.

Note: If PICTURE DEFAULT is executed:

- ① All the PICTURE items set on the user menu are reset.
- The values for PICTURE, WHITE BAL, and SIDE MASK LEVEL of the Integrator menu will become those of current adjustment values of Service Factory mode.

2

● FINAL SETUP Details

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Items	<u> </u>	Initial Setting	Remarks		
Key input of the remote	control unit	•	•		
Power supply (STANDBY/	ON)		NO CARE		
Input function		INPUT1			
-	VIDEO	WIDE	(When the video signal is input) For each input function		
•		① DOT BY DOT	(Miles the DO simplify insult) For each insult function and simplify		
Screen size	PC	② 4:3 (including TYPE)	(When the PC signal is input) For each input function and signal mode		
		③ FULL (including TYPE)	Priority is $1 \rightarrow 2 \rightarrow 3$		
Vertical position adjustmen	nt (V scroll)	0	For each input function (at VIDEO)		
KEY LOCK		UNLOCK			
VOLUME		0	Common to all input functions		
User menu settings		•			
PICTURE		Default value for all adjustment items	For each input function and signal mode		
SCREEN		Default value for all adjustment items	For each input function and signal mode (at PC)		
INPUT LABEL		□INPUT∗□	(*: 1 to 5). For each input function		
AUTO POWER OFF		OFF	For each input function		
POWER MANAGEMENT		OFF	INPUT1 (at PC) /5		
COLOR TEMP		MIDDLE			
DIGITAL NR		LOW	For each input function (at VIDEO)		
HIGH CONTRAST		OFF	, , , ,		
PURECINEMA		OFF	For each input function (at 525i (NTSC))		
COLOR SYSTEM		AUTO	For each INPUT3/4		
CLAMP POSITION		AUTO	For each INPUT1/2		
3D Y/C MODE		MOTION	INPUT 4		
05771110		PC AUTO (at mode03, 31, E1)			
SETTING		PC AUTO (at mode61, 71)	For INPUT 1/2		
		XGA (mode63, 73)			
VIDEO SIGNAL		RGB			
POWER CONTROL		STANDARD	(VIDEO/PC) Common to all input functions		
AUTO FUNCTION		OFF			
AUDIO OUT	FIXED		Common to all input functions		
Integrator menu setting i	item				
PICTURE		Default value for all adjustment items			
WHITE BALANCE		Default value for all adjustment items	For each input function and signal mode		
SCREEN		Default value for all adjustment items			
2×2 MODE		OFF/Upper left			
	VIDEO	OFF	For each input function		
BRT. ENHANCE	PC	OFF	For each function that can be controlled by the PC		
HDTV MODE	1	1035i	Common to all input functions		
		COMPONENT1	750p/1125i/1125p		
VIDEO INPUT		COMPONENT2	525i/525p/625i/625p		
SUB VOLUME		60	For each input function		
OSD		ON			
BAUD RATE		4800BPS	Common to all units		
TIMER		OFF/1/0.0/WHT	(Setting/Timer time/Mask time/mask color) Common to all input functions		

6

7

8

Α

В

С

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1 2 3 4

Items		Initial Setting	Remarks
FULL MASK		OFF	
	R LEVEL	Default value	
SIDE MASK	G LEVEL	Default value	
	B LEVEL	Default value	Common to all units
MASK CONTROL		ON	
ORBITER MODE		OFF	
INVERSE MODE		OFF	
COLOR MODE		MODE1	Common to all units
MIRROR MODE		OFF	
FAN CONTROL		AUTO	
MONITOR NAME		□□□PLASMA□□□	Common to all units
ID NO SET			
SLOT INPUT		VIDEO (RGB)	
Factory Setting Item			
INTE MODE		UNLOCK	
MASK1/2 setting		OFF	Common to all units
ACL SW		ON	
COLOR DET	COLOR DET		NO CARE
RS-232C Setting Item			
VIDEO MUTE		OFF	
LED		ON	Common to all units
100% display		OFF	

F

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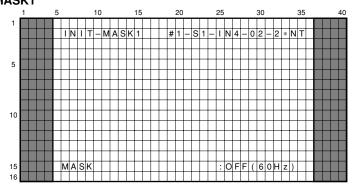
В

С

D

Ε

1 MASK1



Display color: White

: Blue (second line / 15th line for Half tone

each 5 to 36th columns)

В

D

Ε

Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	MASK OFF		OFF	×
AA02	2	MASK51		White	×
AA03	3	MASK52		Cyan 274	×
AA04	4	MASK53		Mazenta 1023	×
AA05	5	MASK54		Flesh color	×
AA06	6	MASK55		Cyan 1023	×
AA07	7	MASK56		Light purple	×
AA08	8	MASK57		Sky blue	×
AA09	9	MASK58		Red	×
AA00	10	MASK59		Green	×
AA46	11	MASK60		Blue	×
AA47	12	MASK61		Black	×
AA4D	BS1	MASK62		Red 779	×
AA4E	BS3	MASK63		Reservation	×
AA4F	BS5	MASK64		Reservation	×
AA50	BS7	MASK65		Reservation	×
AA51	BS9	MASK66		Reservation	×
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Selection of free-running frequency	••→50Hz→60Hz→70Hz→••	Default: 60 Hz	
AA95	«	Selection of free-running frequency	••→50Hz→60Hz→70Hz→••	Default: 60 Hz	
AA8A	SET	Storing data of the selected item and shifting to upper layer			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE	7	RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various adjustment /	REFERENCE		
AA1E	MPX	setting screen	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shifting to next adjustment / setting screen	INFORMATION		

Operating specifications

5

- When this mode is entered, the MASK OFF display (the function called by pressing the "1" key) is displayed first. However, if any MASK setting has been already made, the selected MASK item is displayed first.
 If this mode is entered with any of the MASK items in MASK 2 selected, the settings for MASK 2 become invalid, and the MASK OFF display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be executed.
 Note: During MASK setting, an OSD is not displayed. If another operation is selected, an OSD is displayed for 2 seconds after the MASK signal output is stopped, then the selected FULL MASK display will be displayed again.

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6

3

2 MASK2

I N I T – M A S K 2

Display color : White Half tone : Blue (second line / 15th line for each 5 to 36th columns)

Basic Operation

В

D

Ε

Perform the adjustment of each parameter

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	MASK OFF		OFF	×
AA02	2	MASK 01		Pattern 1 (Ramp)	×
AA03	3	MASK 02		Pattern 2 (Color-bars)	×
AA04	4	MASK 03		Pattern 3 (Slanting lines)	×
AA05	5	MASK 04		Pattern 4 (For W/B Lo-Light adjustment 1/5Window (14%, 56%))	×
AA06	6	MASK 05		Pattern 5 (For W/B Lo-Light adjustment 1/5Window (Pred, Skin))	×
AA07	7	MASK 06		Pattern 6 (For W/B Peak adjustment 1/5Window (100%))	×
AA08	8	MASK 07		Pattern 7 (Peak signal : For peak measurement and adjustment 1/5Window (100%))	×
AA09	9	MASK 08		Pattern 8 (Reservation)	×
AA00	10	MASK 09		Pattern 9 (Window-A for scan IC protection test)	×
AA46	11	MASK 10		Pattern 10 (Window-B for scan IC protection test)	×
AA47	12	MASK 11		Pattern 11 (Reservation)	×
AA4D	BS1	MASK 12		Pattern 12 (Reservation)	×
AA4E	BS3	MASK 13		Pattern 13 (Reservation)	×
AA4F	BS5	MASK 14		Pattern 14 (Reservation)	×
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Selection of upper items			
AA97	▼	Selection of lower items			
AA94	>>	Selection of free-running frequency	••→50Hz→60Hz→70Hz→••	Default: 60 Hz	
AA95	«	Selection of free-running frequency	••→50Hz→60Hz→70Hz→••	Default: 60 Hz	
A8A	SET	Storing data of the selected item and shifting to upper layer			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shifting to various adjustment / setting screen	REFERENCE		
AA1E	MPX	Soung Soleen	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shifting to next adjustment / setting screen	INFORMATION		

Operating specifications

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- When this mode is entered, the MASK OFF display (the function called by pressing the "1" key) is displayed first. However, if any MASK setting has been already made, the selected MASK item is displayed first.
 If this mode is entered with any of the MASK items in MASK 1 selected, the settings for MASK 1 become invalid, and the MASK OFF display (the function called by pressing the "1" key) is displayed first.
 When any of the above keys is pressed, the current adjustment value is stored in memory, then the corresponding operation will be accounted.
- executed.

Note: During MASK setting, an OSD is not displayed. If another operation is selected, an OSD is displayed for 2 seconds after the MASK signal output is stopped, then the selected MASK display will be displayed again.

Cassification 1 of Input Signal Mode (VIDEO)

SIG Mode	Signal Type	OSD display	V. Frequency fv (Hz)	H. Frequency fh (Hz)	Number of Pixels	INPUT5 (DVI input) Compatibility
00 • 5 00 • 6 00 • 7 00 • 8 00 • 9	SDTV • 625i (PAL/SECAM)	(100% tentative) 4:3 FULL ZOOM WIDE	50	15.6	1280 × 768 984 × 768 1280 × 768 1280 × 768 1280 × 768	× (incompatible)
01 • 5 01 • 6 01 • 7 01 • 8 01 • 9	SDTV • 625p (PAL • Progressive)	(100% tentative) 4:3 FULL ZOOM WIDE	50	31.2	1280 × 768 984 × 768 1280 × 768 1280 × 768 1280 × 768	× (incompatible)
02 · 5 02 · 6 02 · 7 02 · 8 02 · 9	SDTV • 525i (NTSC/4.43NTSC)	(100% tentative) 4:3 FULL ZOOM WIDE	60	15.7	1280 × 768 984 × 768 1280 × 768 1280 × 768 1280 × 768	× (incompatible)
03 · 5 03 · 6 03 · 7 03 · 8 03 · 9	SDTV • 525p (NTSC • Progressive)	(100% tentative) 4:3 FULL ZOOM WIDE	60	31.5	1280 × 768 984 × 768 1280 × 768 1280 × 768 1280 × 768	× (incompatible)
11 • 5 11 • 7	HDTV • 1125i (Effective scanning lines: 1080)	(100%) FULL	50	28.1	1280 × 768 1280 × 768	imes (incompatible)
12 • 5 12 • 7	HDTV • 1125i (Effective scanning lines: 1080)	(100%) FULL	60	33.8	1280 × 768 1280 × 768	× (incompatible)
13 • 5 13 • 7	HDTV • 1125i (Effective scanning lines: 1035)	(100%) FULL	60	33.8	1280 × 768 1280 × 768	× (incompatible)
14 • 5 14 • 7	HDTV • 750p (Effective scanning lines: 720)	(100%) FULL	60	45.0	1280 × 768 1280 × 768	× (incompatible)
15 • 5 15 • 7	HDTV • 1125p (Effective scanning lines: 1080)	(100%) FULL	60	67.5	1280 × 768 1280 × 768	× (incompatible)

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● Classification 2 of Input Signal Mode (PC)

SIG Mode	Signal Type	OSD Display	V. Frequency v (Hz)	H. Frequency h (Hz)	Number of Pixels	INPUT5 (DVI input) Compatibility
20 • 2	640 × 400	FULL	56	24.8	1280 × 768	× (incompatible)
23 • 2	640 × 400	FULL	70	31.5	1280 × 768	△ (compatible informally)
31 • 0 31 • 1 31 • 2	640 × 480	DOT BY DOT 4:3 FULL	60	31.5	640 × 480 1024 × 768 1280 × 768	○ (compatible)
32 • 0 32 • 1 32 • 2	640 × 480	DOT BY DOT 4:3 FULL	66	35.0	640 × 480 1024 × 768 1280 × 768	△ (compatible informally)
34 • 0 34 • 1 34 • 2	640 × 480	DOT BY DOT 4:3 FULL	72	37.9	640 × 480 1024 × 768 1280 × 768	△ (compatible informally)
35 • 0 35 • 1 35 • 2	640 × 480	DOT BY DOT 4:3 FULL	75	37.5	640 × 480 1024 × 768 1280 × 768	△ (compatible informally)
36 • 0 36 • 1 36 • 2	640 × 480	DOT BY DOT 4:3 FULL	85	43.3	640 × 480 1024 × 768 1280 × 768	△ (compatible informally)
40 • 4 40 • 1 40 • 2	800 × 600	DOT BY DOT 4:3 FULL	56	35.1	800 × 600 1024 × 768 1280 × 768	○ (compatible)
41 • 0 41 • 1 41 • 2	800 × 600	DOT BY DOT 4:3 FULL	60	37.9	800 × 600 1024 × 768 1280 × 768	O (compatible)
44 • 0 44 • 1 44 • 2	800 × 600	DOT BY DOT 4:3 FULL	72	48.1	800 × 600 1024 × 768 1280 × 768	△ (compatible informally)
45 • 0 45 • 1 45 • 2	800 × 600	DOT BY DOT 4:3 FULL	75	46.9	800 × 600 1024 × 768 1280 × 768	△ (compatible informally)
46 • 0 46 • 1 46 • 2	800 × 600	DOT BY DOT 4:3 FULL	85	53.7	800 × 600 1024 × 768 1280 × 768	△ (compatible informally)
55 • 0 55 • 1 55 • 2	832 × 624	DOT BY DOT 4:3 FULL	75	49.7	832 × 624 1024 × 768 1280 × 768	△ (compatible informally)
61 • 1 61 • 2	1024 × 768	DOT BY DOT FULL	60	48.4	1024 × 768 1280 × 768	○ (compatible)
63 • 1 63 • 2	1024 × 768	DOT BY DOT FULL	70	56.5	1024 × 768 1280 × 768	△ (compatible informally)
65 • 1 65 • 2	1024 × 768	DOT BY DOT FULL	75	60.0	1024 × 768 1280 × 768	△ (compatible informally)
66 • 1 66 • 2	1024 × 768	DOT BY DOT FULL	85	68.7	1024 × 768 1280 × 768	△ (compatible informally)
70 • 2	1280 × 768	DOT BY DOT	56	45.1	1024 × 768	O (compatible)
71 • 2	1280 × 768	DOT BY DOT	60	48.1	1024 × 768	O (compatible)
73 • 2	1280 × 768	DOT BY DOT	70	55.5	1024 × 768	△ (compatible informally)

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SIG Mode	Signal Type	OSD Display	V. Frequency v (Hz)	H. Frequency h (Hz)	Number of Pixels	INPUT5 (DVI input) Compatibility
81 • 1 81 • 2	1152 × 864	4 : 3 (TYPE) FULL (TYPE)	60	53.7	1024 × 768 1280 × 768	O (compatible)
84 • 1 84 • 2	1152 × 864	4 : 3 (TYPE) FULL (TYPE)	72	64.9	1024 × 768 1280 × 768	△ (compatible)
85 • 1 85 • 2	1152 × 864	4 : 3 (TYPE) FULL (TYPE)	75	67.5	1024 × 768 1280 × 768	△ (compatible)
95 • 1 95 • 2	1152 × 870	4 : 3 (TYPE) FULL (TYPE)	75	68.7	1016 × 768 1280 × 768	△ (compatible)
A2 • 1 A2 • 2	1152 × 900	4 : 3 (TYPE) FULL (TYPE)	66	62.0	984 × 768 1280 × 768	△ (compatible)
A5 • 1 A5 • 2	1152 × 900	4 : 3 (TYPE) FULL (TYPE)	76	71.7	984 × 768 1280 × 768	△ (compatible)
B1 • 1 B1 • 2	1280 × 960	4 : 3 (TYPE) FULL (TYPE)	60	60.0	1024 × 768 1280 × 768	O (compatible)
C1 • 1 C1 • 2 C1 • 3	1280 × 1024	4 : 3 (TYPE) FULL (TYPE) PARTIAL	60	64.0	960 × 768 1280 × 768 1280 × 768	O (compatible)
C5 • 1 C5 • 2	1280 × 1024	4 : 3 (TYPE) FULL (TYPE)	75	80.0	960 × 768 1280 × 768	× (incompatible)
C6 • 1 C6 • 2	1280 × 1024	4 : 3 (TYPE) FULL (TYPE)	85	91.1	960 × 768 1280 × 768	× (incompatible)
D1 • 1 D1 • 2	1600 × 1200	4 : 3 (TYPE) FULL (TYPE)	60	75.0	1024 × 768 1280 × 768	× (incompatible)
D2 • 1 D2 • 2	1600 × 1200	4 : 3 (TYPE) FULL (TYPE)	65	81.3	1024 × 768 1280 × 768	\times (incompatible)
D3 • 1 D3 • 2	1600 × 1200	4 : 3 (TYPE) FULL (TYPE)	70	87.5	1024 × 768 1280 × 768	\times (incompatible)
D5 • 1 D5 • 2	1600 × 1200	4 : 3 (TYPE) FULL (TYPE)	75	93.8	1024 × 768 1280 × 768	\times (incompatible)
D6 • 1 D6 • 2	1600 × 1200	4 : 3 (TYPE) FULL (TYPE)	85	106.3	1024 × 768 1280 × 768	\times (incompatible)
E1 • 1 E1 • 2	852 × 480	DOT BY DOT FULL	60	31.7	852 × 480 1280 × 768	O (compatible)

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6.2 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ RGB Assy

When repaired

- Adjustment is impossible when the Matrix IC or AD/PLL/AMP IC is replaced.
- 2. Adjustment is unnecessary in other cases.

When replaced

White balance adjustment

■SW POWER SUPPLY Module

When replaced

No adjustment required.

■ DIGITAL VIDEO Assy

When repaired

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No adjustment required.

When replaced

- Adjustment is unnecessary when only the DIGITAL VIDEO Assy is replaced.
- When the RGB Assy is replaced at the same time as this assembly, remove the IC1204 (24LC04(1)SN-TBB) from the old PC board of the DIGITAL VIDEO Assy and attach it to the new PC board.
- 3. If you are reusing the collected old PC board as a service part, attach the new IC1204 to the board.

■ Y DRIVE Assy

When repaired

Note: If the Pulse Module fails, it is not possible to repair the Y DRIVE Assy by replacing only the Pulse Module. Replace the entire Y DRIVE Assy.

1. VOFS/VH/IC5V voltage adjustment

When replaced

1. Panel white balance adjustment

■ X DRIVE Assy

When repaired

Note: If the Pulse Module fails, it is not possible to repair the X DRIVE Assy by replacing only the Pulse Module. Replace the entire X DRIVE Assy.

1. VRN voltage adjustment

When replaced

1. Panel white balance adjustment

■ Video Card (PDA-5002)

For Adjustment, Refer to the service manual ARP3093 for PDA-5002.

When repaired

- 1. Y LEVEL adjustment
- 2. Color difference and TINT adjustment

When replaced

No adjustment required.

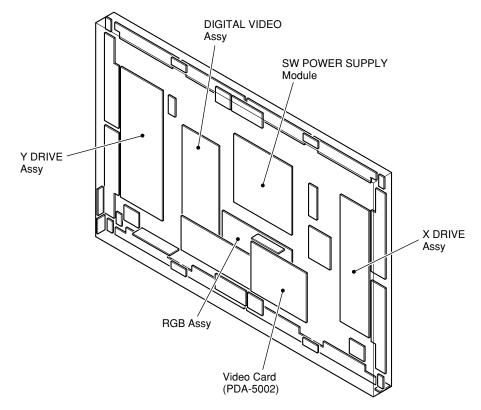


Fig. 1 Configuration of the PC Board (rear side view)

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6.3 ADJUSTMENT

6.3.1 MAIN UNIT ADJUSTMENT

■ VOFS/VH/IC5V Voltage Adjustment

Input Signal	Adjusting Point	Adjusting Method								
		VOFS (Offset vol Method 1 1. Make a note of 2. Set the VOFS A 3. Turn the VR270 becomes 45V. 4. Return the VOF Method 2 1. Read the adjus 2. Turn the VR270 becomes the co	adjustmen ADJ adjust D1 so that t FS ADJ adj tment valu D1 so that t	t value of ment value he voltage ustment v e of V-OFI he voltage	e to center (e between K alue to that FSET of RE e between K	128). 22710 (VOFS you wrote do F-DIG mode 2710 (VOFS	s) and K27 own in Ste in Factor s) and K27	703 (SUS GND) p 1. y mode. 703 (SUS GND)		
		Input	DAC	Setting	Input Command	DAC	Setting			
		VOF000	Output 0.4	Voltage 25	VOF134	Output 2.599212598	Voltage 45.94488			
		VOF006	0.4984375	25.9375	VOF141	2.71496063	47.04724			
		VOF013	0.61328125	27.03125	VOF147	2.814173228	47.99213			
		VOF019	0.71171875	27.96875	VOF153	2.913385827	48.93701			
	VR2701 (VOFS)	VOF026	0.8265625	29.0625	VOF160	3.029133858	50.03937			
	(Y DRIVE Assy)	VOF032	0.925	30	VOF166	3.128346457	50.98425			
	(I DITIVE ASSY)	VOF038	1.0234375	30.9375	VOF172	3.227559055	51.92913			
		VOF045	1.13828125	32.03125	VOF179	3.343307087	53.0315			
		VOF051	1.23671875	32.96875	VOF185	3.442519685	53.97638			
		VOF058	1.3515625	34.0625	VOF191	3.541732283	54.92126			
		VOF064	1.45	35	VOF198	3.657480315	56.02362			
		VOF070	1.5484375	35.9375	VOF204	3.756692913	56.9685			
		VOF077	1.66328125	37.03125	VOF211	3.872440945	58.07087			
hita 1000/		VOF083	1.76171875	37.96875	VOF217	3.971653543	59.01575			
White 100%		VOF090	1.8765625	39.0625	VOF223	4.070866142	59.96063			
		VOF100	1.975	40 0075	VOF230	4.186614173	61.06299			
		VOF102 VOF109	2.0734375	40.9375 42.03125	VOF236 VOF242	4.285826772 4.38503937	62.00787 62.95276			
		VOF115	2.28671875	42.96875	VOF249	4.500787402	64.05512			
		VOF122	2.4015625	44.0625	VOF255	4.6	65			
		VOF128	2.5	45	70.200					
		The symptom in case of mis-adjustment If the VOFS Voltage adjustment is not performed properly, blinking luminance poin appear. If the voltage is deviated greatly from the proper adjustment point, the pan as white. VH (voltage for the scan IC) Adjustment Adjust so that the voltage between K2716 (VH) and K2720 (PSUS) becomes 103V PSUS (=GNDH) is a floating GND and its electric potential is different from that of GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that						nt, the panel will light omes 103V ± 0.5V. om that of chassis		
	VR2703 (VH) (Y DRIVE Assy)	damage the unit. The symptom in If the VH adjustments	case of m	is-adjust r erformed	nent properly, bli	nking lumina	nce points	s like dots appear. If el will light as white.		
	VR2702 (IC5V) (Y DRIVE Assy)	Adjust so that the PSUS (=GNDH) is	IC5V Adjustment Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes 5.0V ± 0.1V. PSUS (=GNDH) is a floating GND and its electric potential is different from that of chassis GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit							

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■ Sustain Pulse Waveform Adjustment

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Input Signa	Adjusting Point	Adjusting Method
White 100%	REF_DIG mode in Factory mode X-SUS-B : key 9 Y-SUS-B : key 11	X-SUS-B, Y-SUS-B Adjustment Set to the indicated value with the keys on the remote control unit (9 and 11 keys).

■ VRN Voltage Adjustment

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Input Signal	Adjusting Point	Adjusting Method
White 100%	VR3701 (VRN) (X DRIVE Assy)	VRN (minus reset voltage adjustment) Adjust so that the voltage between K3707 (VRN) and K3702 (SUS-GND) becomes -300V \pm 1.0V.

■ Panel-White-Balance Adjustment

Input Signal	Adjusting Point		Adjust	ing Method	
		mode. For adjus	tment, use the mask (I	MASK04) signal of Fac	EL R-HIGH to PANEL B-LOW) in Factory ctory mode for display.
			MASK Left Side	MASK Right Side	
		х	295	291	
		у	306	300	
					•

■ Mask-Level Adjustment

Input Signal	Adjusting Point	Adjusting Method
	VIDEO OPTION mode in Factory mode SIDE MASK LEV. R SIDE LEVEL: key 1 G SIDE LEVEL: key 2 B SIDE LEVEL: key 3	Side mask color / Level Adjustment Set the indicated value with the keys on the remote control unit (1, 2 and 3 keys).

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• A Video Card (PDA-5002 or equivalent) is necessary for white balance adjustment for video signal of the RGB Assy. • Adjust with video system signal (525i) and RGB (PC VGA) signal. • Adjust so that the level and amplitude of the RED and RLUE signals become the same referring to the GREEN signal.

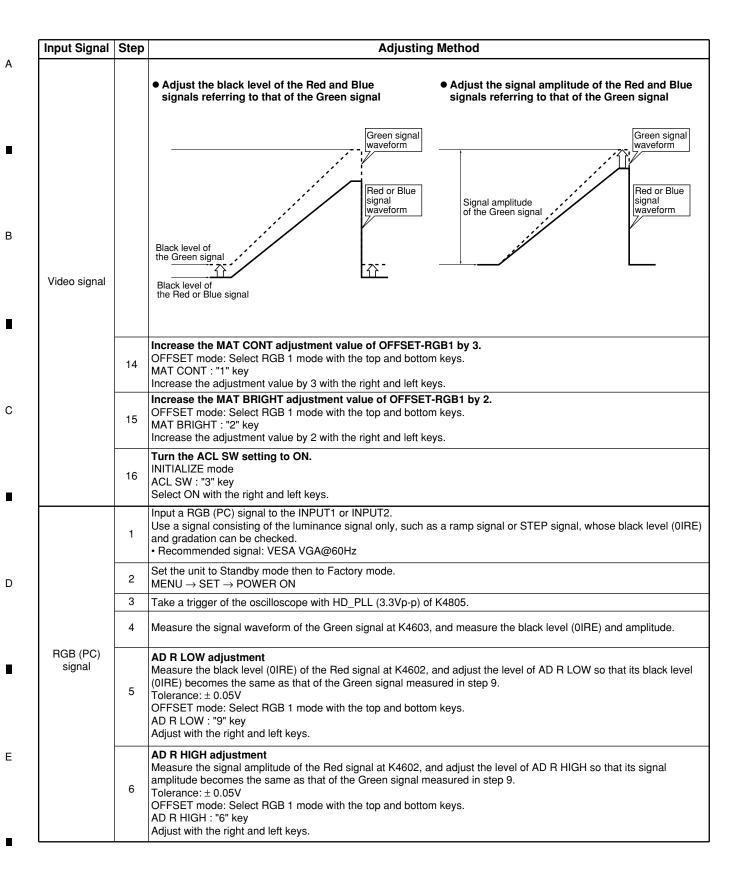
		evel and amplitude of the RED and BLUE signals become the same, referring to the GREEN signal.
Input Signal	Step	Adjusting Method
	1	Connect a Video Card to the RGB Assy through a jig cable to measure the RGB Assy. (See "Diagnosis of the Video Card (PDA-5002)" of 7.1.4 DISASSEMBLY.) The signal level cannot be measured without a jig cable. Note: Be careful of the direction of the jig cable connector when connecting.
	2	Input a 525i component signal to INPUT 1 and INPUT 2. Use a signal consisting of the luminance signal only, such as a ramp signal or STEP signal, whose black level (0IRE) and gradation can be checked. Note: You can use a Y (luminance) signal of the standard NTSC component video signal.
	3	In the signal input function (INPUT1 or INPUT2), set the display mode of the VIDEO signal to COMPONENT. MENU \to SETUP \to VIDEO SIGNAL : COMPONENT
	4	Set the unit to Standby mode then to Factory mode. $ MENU \rightarrow SET \rightarrow POWER \ ON $
	5	Turn the ACL SW setting to OFF. INITIALIZE mode ACL SW: "3" key Select OFF with the right and left keys.
	6	Decrease the MAT CONT adjustment value of OFFSET-RGB1 by 3. OFFSET mode: Select RGB 1 mode with the top and bottom keys. MAT CONT: "1" key Decrease the adjustment value by 3 with the right and left keys.
	7	Decrease the MAT BRIGHT adjustment value of OFFSET-RGB1 by 2. OFFSET mode: Select RGB 1 mode with the top and bottom keys. MAT BRIGHT: "2" key Decrease the adjustment value by 2 with the right and left keys.
Video signal	8	Take a trigger of the oscilloscope with HD_PLL (3.3Vp-p) of K4805.
J	9	Measure the signal waveform of the Green signal at K4603, and measure the black level (0IRE) and amplitude.
	10	AD R LOW adjustment Measure the black level (0IRE) of the Red signal at K4602, and adjust the level of AD R LOW so that its black level (0IRE) becomes the same as that of the Green signal measured in step 9. Tolerance: ± 0.05V OFFSET mode: Select RGB 1 mode with the top and bottom keys. AD R LOW: "9" key Adjust with the right and left keys.
	11	AD R HIGH adjustment Measure the signal amplitude of the Red signal at K4602, and adjust the level of AD R HIGH so that its signal amplitude becomes the same as that of the Green signal measured in step 9. Tolerance: ± 0.05V OFFSET mode: Select RGB 1 mode with the top and bottom keys. AD R HIGH: "6" key Adjust with the right and left keys.
	12	AD B LOW adjustment Measure the black level (0IRE) of the Blue signal at K4604, and adjust the level of AD B LOW so that its black level (0IRE) becomes the same as that of the Green signal measured in step 9. Tolerance: ± 0.05V OFFSET mode: Select RGB 1 mode with the top and bottom keys. AD B LOW: "11" key Adjust with the right and left keys.
	13	AD B HIGH adjustment Measure the signal amplitude of the Blue signal at K4604, and adjust the level of AD B HIGH so that its signal amplitude becomes the same as that of the Green signal measured in step 9. Tolerance: ± 0.05V OFFSET mode: Select RGB 1 mode with the top and bottom keys. AD B HIGH: "8" key Adjust with the right and left keys.

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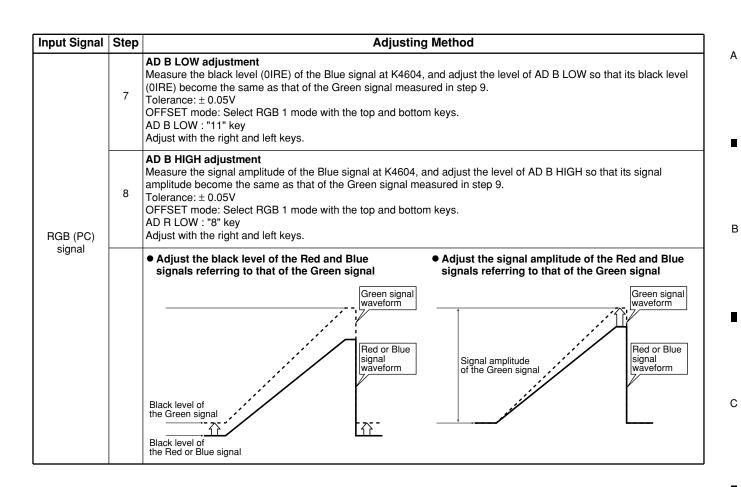
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■ Color-Balance Adjustment

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Input Signal	Adjusting Point		Adjusting Method	k				
REFERENCE1 mode in Factory mode COLOR: "3" key TINT: "4" key Color-Balance Adjustment After adjusting the white balance, check the flesh color of figures in LD still pictures. If the color is not natural, adjust it with the keys on the remote control unit.								
Reference: Adjustment values when using the Minolta color-difference meter								
					NTSC	HD	PC	
				х	298	299	302	
			20% window-step signal (-3dB)	у	307	315	308	
		White	(odb)	Υ	6.6	5.7	2.9	
		Balance		х	293	292	297	
			80% window-step signal (-3dB)	у	309	312	319	
			(505)	Υ	135	148	66.2	
		Flesh	Window obromo signal	х	430	427	_	
		Color		365	362	_		

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X DRIVE Assy Y DRIVE Assy K3708 (VRN_OVP) O K3214 (SUSGND) K3707 C K3702 (VRN) (SUS. GND) K3706 (X DC-DC PD) VR3701 (VRN. ADJ)□ K3705 VRN UVP) (SUSOUTA) (SUSOUTA) (-8V) (VF+) K2701⊓ O K3205 (SUS_D) K3701 🗖 (VSUS) O (202_U) K5554 K3703 (SUS, GND) (VF-) K2704 © (GNDHS) □ _ K3704 (VRN. CNT) K3204 (SUS_U) O O (202_D) KSSS2 □ rossav (Lda_ē_sus) O K3106 (SUSOUT_B) SOSSAV (LDA_B_SUS) | (NEW_US) | (YSOR) | (NEW_DET) | (NEW_DET) | (NEW_US) | (NEW_DET) | (NEW_US) K3102 C (XNR_PD) □K5502 0K5004 0K5004 0K5005 0K5003 K3030 | COUNTY | C K3009 K3011 K3006 □K5002 □K5000 K3008 (PN_MUTE) K3021 **TKS013** K3015 K3017 K3022 K3025 (XSUS-MSK) XCP-MSK) 1K2010 K3018 (XNR-D2) K3013 (XSUS-G) K3004 (XSUS-U) K3003 K3001 (XSUS-B) (+5V) K3014 (XNR-D1)-K5511 K3012 (XSUS-D) (AOES) KS710 K2709 K3103 (VCP_PD) K3104 (+5V) K3203 (1/2VSUS) [□] VR2701 ☐ (VSUS)□ K2702 D (2020ND) KS302 KS (2026ND) KSV03 KSSSS VR3203 (SUS-U) □ O K3108 (SUS_D) (AOFS) K2708 VR3202 (SUS-D) □ (SUSOUTB)] (NH OVP. □ VR3201 (SUS-B) □ EOTSRV □ (LQA_HV) VR3200 (SUS-G) O K3200 (SUS_U) O_ (202⁰0) K5556 (YDC_DC_PD) K2715 (202_D) K2227 O (202_D)
(202_D)
(202_G) K5516
(202_B) (202_D)
(202_B) (202_D)
(202_B) (202_D) (VH) (VH CONT)
(VH) (VH) (VH) (VH) (SUSGND) O (1/2 VSUS)

Adjusting Points

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6.4 COMMAND

6.4.1 RS-232C COMMANDS (for adjustment)

	Command	Name	Function	RS-232C Factory	RS-232C Integrator	Normal Validity	Direct Validity	UP/DOWN Validity
Α	ABL	ABL	ABL level adjustment	0	-	-	0	0
В	BRT	BRIGHT	Brightness adjustment	0	0	-	0	0
	ВНІ	B HIGH	B HIGH adjustment	0	0	-	0	0
	BLW	B LOW	B LOW adjustment	0	0	-	0	0
	BSL	B SIDE MASK LEVEL	B SIDE MASK LEVEL adjustment	0	0	-	0	0
	ВНА	AD B HIGH	AD B HIGH adjustment	0	-	-	0	0
	BLA	AD B LOW	AD B LOW adjustment	0	-	-	0	0
С	CNT	CONTRAST	Contrast adjustment	0	0	-	0	0
	COL	COLOR	Color adjustment	0	0	-	0	0
	CDR	CDR OFFSET	CDR OFFSET adjustment	0	-	-	0	0
	CDB	CDB OFFSET	CDB OFFSET adjustment	0	-	-	0	0
	CTI	CD TINT	Chroma decode TINT adjustment	0	-	-	0	0
	CPH	CLOCK PHASE	PLL phase adjustment	0	0	-	0	0
	CFR	CLOCK FREQUENCY	PLL frequency adjustment	0	0	-	0	0
D	DW0	DOWN 10	To decrease the adjustment value by 10	0	0	0	-	-
	DWn	DOWN n	To decrease the adjustment value by n (n = 1, 2, ••• 8, 9)	0	0	0	-	-
	DWF	DOWN FULL	To decrease the adjustment value to the minimum	0	0	0	- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	-
G	GHI	G HIGH	G HIGH adjustment	0	0	-	0	0
	GLW	G LOW	G LOW adjustment	0	0	-	0	0
	GSL	G SIDE MASK LEVEL	G SIDE MASK LEVEL adjustment	0	0	-	0	0
	GHA	AD G HIGH	AD G HIGH adjustment	0	_	_		0
	GLA	AD G LOW	AD G LOW adjustment	0	_	_		0
L	LRY	R-Y LEVEL	R-Y level adjustment	0	_	_		0
_	LBY	B-Y LEVEL	B-Y level adjustment	0	_	_		0
м	MCT	MAT CONTRAST	MAT CONTRAST adjustment	0	_			0
•••	MBR	MAT BRIGHT	MAT BRIGHT adjustment	0	_			0
	MCL	MAT COLOR	MAT COLOR adjustment	0	_			0
	MTI	MAT TINT	MAT TINT adjustment	0	_	_		0
	MCA	AD MAIN CONTRAST	AD MAIN CONTRAST adjustment	0	_			0
P	PBH	PANEL BLUE HIGH	BLUE HIGH-LIGHT adjustment	0	_			0
-	PBL	PANEL BLUE LOW	BLUE LOW-LIGHT adjustment	0	_			0
	PGH	PANEL GREEN HIGH	GREEN HIGH-LIGHT adjustment	0	_			0
	PGL	PANEL GREEN LOW	GREEN LOW-LIGHT adjustment	0	_			0
	PRH	PANEL RED HIGH	RED HIGH-LIGHT adjustment	0	_			0
	PRL	PANEL RED LOW	RED LOW-LIGHT adjustment	0	_			0
R	RHI	R HIGH	R HIGH adjustment	0	0			0
n	RLW	R LOW	R LOW adjustment	0	0			0
	RSL	R SIDE MASK LEVEL	R SIDE MASK LEVEL adjustment	0	0	_		0
	RHA	AD R HIGH	AD R HIGH adjustment	0	_	_		0
	RLA	AD R LOW	AD R LOW adjustment	0	_			0
_			To adjust the sub-volume of INPUT1	-				
s	SV1 SV2	SUB VOLUME INPUT1 SUB VOLUME INPUT2	To adjust the sub-volume of INPUT2	0	0	_		0
			,	0	0	_		0
	SV3	SUB VOLUME INPUT3	To adjust the sub-volume of INPUT3	l	0	_		0
	SV4	SUB VOLUME INPUT4	To adjust the sub-volume of INPUT4	0	0	_		
	SV5	SUB VOLUME INPUT5	To adjust the sub-volume of INPUT5	0	0	_	0	0
	SHP	H.SHARP	H.SHARP/H.ENHANCE adjustment	0	0	_	0	0
_		V.SHARP	V.SHARP/V.ENHANCE adjustment			_		
т_	TNT	TINT	TINT adjustment	0	0	-	0	0
U	UP0	UP10	To increase the adjustment value by 10	0	0	0	_	-
	UPn	UPn	To increase the adjustment value by n (n = 1,2•••8,9)	0	0	0	_	-
	UPF	UP FULL	To increase the adjustment value to the maximum	0	0	0	-	
٧	VOF	VOFFSET ADJUST	Vofs adjustment	0	-	-	0	0
	VOL	VOLUME	Audio volume adjustment	0	0	0	0	0
	VSU	VSUS ADJUST	Vsus adjustment	0	-	-	0	0
	VPS	VERTICAL POSITION	Vertical position adjustment	0	0	-	0	0
	VSI	VERTICAL SIZE	Vertical size adjustment	0	0	-	0	0
Х	XSB	XSUS B	X-SUS-B pulse adjustment	0	-	-	0	0
	XSG	XSUS G	X-SUS-G pulse adjustment	0	-	-	0	0
Υ	YSB	YSUS B	Y-SUS-B pulse adjustment	0	-	-	0	0
	YSG	YSUS G	Y-SUS-G pulse adjustment	0	-	-	0	0
	YDL	Y-DELAY	Y-DELAY adjustment	0	-	-	0	0
	YOL	Y-OUT LEVEL	Y-OUT LEVEL adjustment	0	-	_	0	0

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6.4.2 RS-232C COMMANDS (for setting)

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_	Command	Name	Function	RS-232C Factory	RS-232C Integrator	Normal Validity	Direct Validity	UP/DOW Validity
A	JN	ADJUST NO	To exit from the RS-232C Integrator mode	-	0	-	-	-
Α	JY	ADJUST YES	To enter the RS-232C Integrator mode	-	-	0	-	-
Α	MMN	AUDIO MUTE NO	To turn the audio mute to OFF	0	0	0	-	-
Α	MY	AUDIO MUTE YES	To turn the audio mute to ON	0	0	0	-	-
Α	AB0	ABL MODE0	To set the ABL setting to MODE0 (REFERENCE)	0	-	-	_	-
Α	AB1	ABL MODE1	To set the ABL setting to MODE1 (PC)	0	-	-	-	-
Α	AB2	ABL MODE2	To set the ABL setting to MODE2 (VIDEO60Hz)	0	-	-	-	-
A	AB3	ABL MODE3	To set the ABL setting to MODE3 (VIDEO50Hz)	0	_	-	-	-
ВЕ	BBY	VIDEO RGB YES	To set the signal format to VIDEO RGB	0	0	-	-	-
Е	BR1	BAUD RATE1	To set the RS-232C baud rate to 1200BPS	0	0	-	-	-
Е	3R2	BAUD RATE2	To set the RS-232C baud rate to 2400BPS	0	0	-	_	-
Е	BR3	BAUD RATE3	To set the RS-232C baud rate to 4800BPS	0	0	-	-	-
Е	3R4	BAUD RATE4	To set the RS-232C baud rate to 9600BPS	0	0	_	_	_
-	BR5	BAUD RATE5	To set the RS-232C baud rate to 19200BPS	0	0	_	_	_
-	3R6	BAUD RATE6	To set the RS-232C baud rate to 38400BPS	0	0	_		_
_	CM1		To set to COLOR MODE 1	0	0	0		
<u> </u>		COLOR MODE 1						_
-	CM2	COLOR MODE 2	To set to COLOR MODE 2	0	0	0	_	-
-	CP1		To set the signal format to VIDEO COMPONENT1	0	0	-	_	-
C	CP2	VIDEO COMPONENT2 YES	To set the signal format to VIDEO COMPONENT2	0	0	-	_	-
C	DE	COLOR DETECT EURO	To set the color detect to EURO	0	0	-	_	-
C	DM	COLOR DETECT ALL	To set the color detect to ALL	0	0	-	-	_
C	DA	COLOR DETECT SA	To set the color detect to SA	0	0	-	-	_
	CT1	COLOR TEMP.1	To set the color temperature to -3000K or equivalent	0	0	_	_	_
-	CT2	COLOR TEMP.2	To set the color temperature to -2000K or equivalent	0	0	_	_	_
-	CT3	COLOR TEMP.3	To set the color temperature to ±0K or equivalent	0	0			_
-	T4		, , , , , , , , , , , , , , , , , , , ,	0	0			
-		COLOR TEMP.4	To set the color temperature to +1000K or equivalent			-		_
-	CT5	COLOR TEMP.5	To set the color temperature to +2000K or equivalent	0	0	-	_	-
- 1	CL1	CLAMP MODE1	To set the clamp position to AUTO	0	0	-	_	-
_	CL2	CLAMP MODE2	To set the clamp position to fix	0	0	-	-	-
D [DIN	OSD DISPLAY NO	To prohibit OSD display	0	0	0	-	-
	OIY	OSD DISPLAY YES	To permit OSD display	0	0	0	-	-
[OOF	DISPLAY OFF	To turn the OSD display to OFF	0	0	0	-	-
0	DRN	DRIVE ON	To turn the drive to ON	It is valid in t	ne RS-232C fac	tory and	_	_
0	ORF	DRIVE OFF	To turn the drive to OFF	STB	10 110 2020 140	iory and	_	_
)SP	INPUT SIGNAL DISPLAY	To display current input signal information	0	0		_	_
-)S2	DISPLAY2	To display current various information	0	0	_	_	_
_	WY	EEPROM WRITE YES	. ,	0	_	_		_
F			To enter Plug & Play EEPROM writing mode					
_	WN	EEPROM WRITE NO	To exit from Plug & Play EEPROM writing mode	0	-	-		_
-	AN	FACTORY ADJUST NO	To exit from Factory adjustment mode	0	-	-		_
F	AY	FACTORY ADJUST YES	To enter Factory adjustment mode	-	-	0		-
F	ST	FINAL SET UP	To reset various settings to the factory-preset values	0	_	-	-	-
F	RP	FRESH POSITION	To initialize SCREEN value of integrator	0	0	-	-	-
F	CA	FAN CONTROL AUTO	To set the fan roll control to AUTO	0	0	-	-	-
F	СМ	FAN CONTROL MAX	To set the fan roll control to MAX	0	0	_	_	_
F	MY	FULL MASK YES	To set to FULL MASK (white)	_	0	_	_	_
-	MR	FULL MASK RED	To set to FULL MASK (red)	_	0	-	_	_
- 1	MG	FULL MASK GREN	To set to FULL MASK (green)	_	0	_	_	_
- 1			,					
- 1	MB	FULL MASK BLUE	To set to FULL MASK (blue)	-	0	-		_
-	MN	FULL MASK NO	To release the FULL MASK	_	0	-		-
-	XO	FIX OUTPUT	To fix the audio output	0	0	-	-	-
-	50	FREE RUN 50Hz	To set the free-running to 50Hz in the MASK setting	0	-	-	_	_
F	60	FREE RUN 60Hz	To set the free-running to 60Hz in the MASK setting	0	-	-	-	_
F	70	FREE RUN 70Hz	To set the free-running to 70Hz in the MASK setting	0	-	-	_	_
G	GAJ	GET ADJUST	To obtain various adjustment values of the display from EEPROM	0	-	-	-	-
G	3PW	GET PANEL W/B	To obtain the panel W/B information from EEPROM	0	-	-	-	_
-	SS1	GET STATUS 1	To obtain the version information of microcomputer from	0	_	_	_	_
	SS2	GET STATUS 2	To obtain the PD information and temperature information from	0	-	_	_	_
-			EEPROM Typ sylvade of the positioning date					
G	GPS	GET POSITION DATA	TxD outputs of the positioning data	0	0	0		-
- 1	SSO	GET STATUS OPTION	TxD outputs of data on various OPTION settings	0	0	0	-	-
-		LOCT OTATUO OCT UD	TxD outputs of data on various SETUP settings	0	0	0	_	I –
C	SS SAS	GET STATUS SET UP GET ADJUST SLOT	TxD outputs of data of picture quality setting of SLOT	0		<u> </u>		

	Command	Name	Function	RS-232C Factory	RS-232C Integrator	Normal Validity	Direct Validity	UP/DOWN Validity
ì	GWB	GET WHITE BALANCE	TxD outputs of data of picture quality setting of RGB1	0	0	0	-	-
	GPD	GET POWER DOWN	TxD outputs of POWER DOWN information	0	-	-	-	-
1	HCN	HIGH CONTRAST NO	To turn the high contrast setting to OFF	0	0	-	-	-
	HCY	HIGH CONTRAST YES	To turn the high contrast setting to ON	0	0	-	-	-
	HMS	HOUR METER SET	To set the hour meter to optional time	0	-	-	0	-
	HMD	HOUR METER DISP.	To display the hour meter	0	0	-	-	-
	H80	HDTV MODE 1080 i	To set the HDTV mode to 1080 i	0	0	-	_	-
	H35	HDTV MODE 1035 i	To set the HDTV mode to 1035 i	0	0	-	_	-
П	IN1	INPUT1	To select INPUT1	0	0	0	_	-
ı	IN2	INPUT2	To select INPUT2	0	0	0	_	_
ı	IN3	INPUT3	To select INPUT3	0	0	0	_	_
ı	IN4	INPUT4	To select INPUT4	0	0	0	_	_
ı	IN5	INPUT5	To select INPUT5	0	0	0	_	_
	IMN	INTEGRATOR MODE NO	To set the Integrator mode to LOCK	0	_	_	_	_
ł	IMY	INTEGRATOR MODE YES	To set the Integrator mode to UNLOCK	0	_	_	_	_
	IDC	ID CLEAR	To clear the ID	0	0	_		_
	IDS	ID SET		0			0	
			To set the ID	_	0	-		-
`	KLN	KEY LOCK NO	To permit main unit key / remote control unit operation	0	0	-	_	-
	KLY	KEY LOCK YES	To prohibit main unit key / remote control unit operation	0	0	-		-
1	M00	MASK 00	Mask mode OFF	0	-	-	_	-
	M01	MASK 01	Pattern 1 (ramp)	0	-	-	-	-
	M02	MASK 02	Pattern 2 (color bars)	0	-	-	-	-
	M03	MASK 03	Pattern 3 (slanting lines)	0	-	-	-	-
	M04	MASK 04	Pattern 4 (for W/B measurement)	0	_	-	-	-
	M05	MASK 05	Pattern 5 (for W/B adjustment)	0	_	-	-	-
	M06	MASK 06	Pattern 6 (for W/B peak measurement)	0	-	_	_	_
	M07	MASK 07	Pattern 7 (for peak measurement)	0	_	-	_	-
ı	M08	MASK 08	Pattern 8 (reservation)	0	_	_	_	_
ı	M09	MASK 09	Pattern 9 (for SCAN IC protection test)	0	_	_	_	_
ı	M10	MASK 10	Pattern 10 (for SCAN IC protection test)	0	_	_	_	_
	M11	MASK 11	Pattern 11 (reservation)	0	_	_		_
	M12		· '	0	_	_		
		MASK 12	Pattern 12 (reservation)					
	M13	MASK 13	Pattern 13 (reservation)	0	-	-		-
	M14	MASK 14	Pattern 14 (reservation)	0	_	-	_	_
	M51	MASK 51	Full mask (white)	0	-	-		-
	M52	MASK 52	Full mask (cyan 274)	0	-	-	_	-
	M53	MASK 53	Full mask (mazenta 135)	0	-	-		-
	M54	MASK 54	Full mask (flesh color)	0	-	-	-	-
	M55	MASK 55	Full mask (cyan 1023)	0	-	-	-	-
	M56	MASK 56	Full mask (light purple 5)	0	-	-	-	-
	M57	MASK 57	Full mask (sky blue)	0	_	-	-	-
	M58	MASK 58	Full mask (red)	0	-	-	-	-
	M59	MASK 59	Full mask (green)	0	-	-	-	-
Ì	M60	MASK 60	Full mask (blue)	0	-	_	_	_
	M61	MASK 61	Full mask (black)	0	_	_	_	_
	M62	MASK 62	Full mask (reservation)	0	_	_	_	_
	M63	MASK 63	Full mask (reservation)	0	_	 _ 	_	
	M64	MASK 64	Full mask (reservation) Full mask (reservation)	0	_	_		_
	M65	MASK 65	Full mask (reservation)	0	_	-		-
	M66	MASK 66	Full mask (reservation)	0	-	-	_	-
	MG1	2X2MODE LEFT UPPER	Four enlarged setting: Upper left	0	0	-	_	-
ļ	MG2	2X2MODE LEFT LOWER	Four enlarged setting: Lower left	0	0	-	-	-
	MG3	2X2MODE RIGHT UPPER	Four enlarged setting: Upper right	0	0	-	-	-
	MG4	2X2MODE RIGHT LOWER	Four enlarged setting: Lower right	0	0	-	-	-
	MGY	2X2MODE YES	To turn the four sides multi to ON	0	0	0	-	-
	MGN	2X2MODE NO	To turn the four sides multi to OFF	0	0	0	-	-
	MMN	MIRROR MODE NO	To turn the mirror mode to OFF (normal display)	0	0	0	-	-
	MMX	MIRROR MODE X	Right and left reversing display	0	0	0	-	-
	MMY	MIRROR MODE Y	Top and bottom reversing display	0	0	0	-	-
Ì	MMZ	MIRROR MODE XY	Top/bottom and right/left reversing display	0	0	0	-	-
			To turn the video mute of IC30 to OFF	0	0	0	_	_
Ì	MTN	VIDEO MUTE NO	To turn the video mate or icso to Or i					

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	Command	Name	Function	RS-232C Factory	RS-232C Integrator	Normal Validity	Direct Validity	UP/DOWN Validity
М	MCY	MASK CONTROL YES	To permit automatic mask display position setting	0	0	-	-	_
	MCN	MASK CONTROL NO	To release automatic mask display position setting	0	0	-	-	_
N	NMY	NEGATIVE MODE YES	To turn the inverse mode (negative positive inverting) to ON	0	0	-	-	_
	NMN	NEGATIVE MODE NO	To turn the inverse mode (negative positive inverting) to OFF	0	0	-	-	_
	NTS	COLOR SYSTEM NTSC	To set the COLOR SYSTEM setting to NTSC	0	0	-	-	_
	NT4	COLOR SYSTEM 4.43NTSC	To set the COLOR SYSTEM setting to 4.43NTSC	0	0	-	-	_
	NRN	DIGITAL NR OFF	To set the DIGITAL NR setting to OFF	0	0	-	-	-
	NRL	DIGITAL NR LOW	To set the DIGITAL NR setting to LOW	0	0	-	-	_
	NRM	DIGITAL NR MIDDLE	To set the DIGITAL NR setting to MIDDLE	0	0	-	_	_
	NRH	DIGITAL NR HIGH	To set the DIGITAL NR setting to HIGH	0	0	-	-	-
0	OFY	OFFSET YES	To set the OFFSET adjustment mode to ON	0	_	-	_	_
	OCY	FIELD OFFSET CHANGE YES	To set the field AB offset to ON	0	_	-	_	-
	OCN	FIELD OFFSET CHANGE NO	To set the field AB offset to OFF	0	_	_	_	_
	OMY	ORBITER MODE YES	To set the orbiter mode to ON	0	0	_	_	_
	OMN	ORBITER MODE NO	To set the orbiter mode to OFF	0	0	_	_	_
Р	PAF	ACL SW OFF	To set the ACL SW to OFF	0		_		_
	PAL	COLOR SYSTEM PAL	To set the COLOR SYSTEM setting to PAL	0	0	_	_	_
	PAN	ACL SW ON	To set the ACL SW to ON	0	_			_
	PCA	PC AUTO	To set the INPUT setting to PC AUTO (auto)	0	0			_
	PCY		To set the INPUT setting to PC: RGB (VGA or XGA)	0	0	_		_
	PWY	PC RGB YES	• ,	0	0	_		_
		PC WIDE YES	To set the INPUT setting to PC: RGB (WVGA or WXGA)					_
	PLN	BRIGHT ENHANCE OFF	To set the center brightness correction function to OFF	0	0	-	_	-
	PLY	BRIGHT ENHANCE ON	To set the center brightness correction function to ON	0	0	-		_
	PMS	PULSE METER SET	To set the pulse meter	0	-	-	0	-
	PMD	PULSE METER DISP	To display the pulse meter	0	_	-	-	-
	PMY	COLOR SYSTEM PAL-M	To set the COLOR SYSTEM setting to PAL-M	0	0	-	-	_
	PNY	COLOR SYSTEM PAL-N	To set the COLOR SYSTEM setting to PAL-N	0	0	-	-	-
	PON	POWER ON	Power ON	-	-	0	-	-
	POF	POWER OFF	Power OFF	0	0	0	-	_
	PT0	PANEL COLOR TEMP0	Panel color temperature 0 (REFERENCE value)	0	-	-	-	_
	PT1	PANEL COLOR TEMP1	Panel color temperature 1	0	-	-	-	-
	PT2	PANEL COLOR TEMP2	Panel color temperature 2	0	_	-	-	-
	PSN	AUTO POWER OFF OFF POWER MANAGEMENT	To set the AUTO POWER OFF / POWER MANAGEMENT setting to OFF	0	0	-	-	-
	PS1	AUTO POWER OFF ON	To set the AUTO POWER OFF setting to ON	0	0	-	-	-
	PS2	POWER MANAGEMENT ON	To set the POWER MANAGEMENT setting to ON	0	0	-	-	-
	PUN	PURECINEMA OFF	To set the PURECINEMA to OFF	0	0	-	-	_
	PUS	PURECINEMA STANDARD	To set the PURECINEMA to STANDARD	0	0	-	-	-
	PUH	PURECINEMA HQ	To set the PURECINEMA to HQ (HIGH QUALITY)	0	0	-	-	-
	PWN	POWER CONTROL STANDARD	To set the power control to OFF (STANDARD mode)	0	0	-	-	-
	PWL	CONTROL MODE1	To set the power control to MODE1 (Power-saving mode)	0	0	-	-	_
	PWS	POWER CONTROL MODE2	To set the power control to MODE2 (Longevity life mode)	0	0	-	-	-
	PDF	PICTURE DEFAULT	To execute PICTURE DEFAULT	0	-	-	-	-
R	RFY	REFERENCE YES	To enter reference adjustment mode	0	_	-	_	_
S	SCM	COLOR SYSTEM SECAM	To set the COLOR SYSTEM setting to SECAM	0	0	_	_	_
	STD	STANDARD W/B	To reset the PIC and W/B of integrator to factory default values	_	0	_	_	_
	SM0	SCREEN MODE 0	To set the screen size to DOT BY DOT	0	0	0	_	_
	SM1	SCREEN MODE 1	To set the screen size to 4:3	0	0	0	_	_
	SM2	SCREEN MODE 2	To set the screen size to FULL	0	0	0		
				0				_
	SM3	SCREEN MODE 3	To set the screen size to ZOOM		0	0		_
	SM5	SCREEN MODE 5	To set the screen size to WIDE	0	0	0		-
	SLY	STILL YES	To set the STILL setting to ON	0	0	0		-
ļ_	SLN	STILL NO	To set the STILL setting to OFF	0	0	0	-	-
T	TVA	COLOR SYSTEM AUTO	To set the COLOR SYSTEM setting to AUTO	0	0	-	-	-
٧	VFY	VIDEO FULL DISPLAY YES	To start 100% display	-	-	0	-	-
	VFN	VIDEO FULL DISPLAY NO	To finish 100% display	-	-	0	-	-
	VRO	VARIABLE OUTPUT	To set the audio output to variable	0	0	_	-	-
· v -	YCM	3S Y/C MOTION	To set the 3D Y/C setting to MOTION	0	0	-	-	-
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6.4.3 GET COMMAND

Command Description

Command	Function		
GAJ Outputting data for electronic-control-adjustment values and drive-system-adjustment values			
GPW Outputting data related to the white-balance adjustment for the panel			
GS1 Outputting data such as version information, and data from the hour meter and pulse meter			
GS2	Outputting data for power down, temperature and condensation information		
GAS Outputting data related to the picture quality setting of SLOT			
GAR Outputting data related to the picture quality (RGB1 of the Factory menu)			
GPD	Outputting data on PD information of Service Factory menu (past eight times)		
GPS	Outputting data related to SCREEN adjustment data		
GSD	Outputting TxD data on SD information of Service Factory menu		
GWB Outputting data related to picture quality / white balance			
GSS	Outputting data on SETUP items of menu mode / Integrator menu		
GSO	Outputting data on OPTION items of menu mode / Integrator menu		

GAJ: Outputting data for electronic-control-adjustment values and drive-system-adjustment values • Data are output according to the transmission order and size of the table below. • This command is invalid in modes other than RS-232C Factory Adjustment mode.

Order	er Data Contents		Size	Remarks
1	Setting mode of electric power upper limit value		3 byte	AB* (*: 0 to 3)
2	Floatric power upper limit value	(Reference data)	3 byte	
3	Electric power upper limit value (ABL)	(Offset data)	3 byte	(Note 1)
4	Vsus adjustment value	(Reference data)	3 byte	
5	Vofs adjustment value	(Reference data)	3 byte	
6	V-SUS-B adjustment value	(Reference data)	3 byte	
7	V-SUS-G adjustment value	(Reference data)	3 byte	
8	Y-SUS-B adjustment value	(Reference data)	3 byte	
9	Y-SUS-G adjustment value	(Reference data)	3 byte	

(Note 1): If data are output when the Reference mode is selected, the same data as the reference data are output as the offset data.

GPW (Get Panel White balance): Outputting data related to the white-balance adjustment for the panel

Data are output according to the transmission order and size of the table below.

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• This command is invalid in modes other than the RS-232C Factory Adjustment mode.

Order	Data Con	tents	Size	Remarks
1	Panel color temperature mode		3 byte	PT* (*: 0 to 3)
2	Gain of W/B adjustment value ⊢	(Reference data)	3 byte	
3		(Offset data)	3 byte	(Note 1)
4	Gain of W/B adjustment value	(Reference data)	3 byte	
5		(Offset data)	3 byte	(Note 1)
6	0 : (14/10 1:	(Reference data)	3 byte	
7	Gain of W/B adjustment value	(Offset data)	3 byte	(Note 1)
8	Offe et of M/D edicators at welve	(Reference data)	3 byte	
9	Offset of W/B adjustment value Red	(Offset data)	3 byte	(Note 1)
10	Offset of W/B adjustment value	(Reference data)	3 byte	
11		(Offset data)	3 byte	(Note 1)
12	Offe et of M/D edicators at welve	(Reference data)	3 byte	
13	Offset of W/B adjustment value Blue	(Offset data)	3 byte	(Note 1)

(Note 1): If data are output when the Reference mode is selected, the same data as the reference data are output as the offset data.

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GS1: Outputting data such as version information, and data from the hour meter and pulse meter • Data are output according to the transmission order and size of the table below.

• This command is invalid in modes other than RS-232C Factory Adjustment mode.

Order	Data Contents	Size	Remarks
1	Display information	3 byte	See below
2	Module microcomputer model number	4 byte	5691 or F691
3	Module microcomputer version	3 byte	
4	Panel microcomputer version	3 byte	
5	Panel /FLASH ROM version	3 byte	
6	Hour meter (hour)	5 byte	Unit: H (hour)
7	Pulse meter	7 byte	Unit: 0.01G (10,000,000)
8	Main microcomputer model number	4 byte	5692 or F692
9	Main microcomputer version	3 byte	
10	Wide microcomputer version	3 byte	
11	Wide /FLASH ROM version	3 byte	

■ Display Information

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Data	Model
MX5	PDP-503MX (initial value)
MX4	PDP-433MX
MD5	Module 50 inches
MD4	Module 43 inches
HD5	PDP-503HD
HD4	PDP-433HD

GS2: Outputting data for power down, temperature and condensation information
Data are output according to the transmission order and size in the table below.
This command is valid only in the following cases: in RS-232C Factory adjustment mode, during power-down or shutdown, and for 30 seconds until a shutdown occurs because of condensation formed inside the unit or audio failure.

Note: During power-down, when a failure occurs, or for 30 seconds until a shutdown occurs, data can be obtained by directly executing "GS2" without executing "FAY." However, the ID must be set beforehand.

Order	Data Contents	Size	Remarks
1	AC information	1 byte	Always 0 (not used)
2	Service parts distinction	1 byte	0: DIGITAL ASSY adjustment done 1: DIGITAL ASSY not adjusted (Service Assy)
3	Hour meter (hour, minute)	7 byte	*****H**M
4	Power-down information	2 byte	1st/2nd (*)
5	Temperature information	3 byte	8 bit
6	Condensation information	1 byte	1: Condensation
7	Panel microcomputer communication	1 byte	1: Communication failure
8	DIGITAL EEPROM communication	1 byte	1: Communication failure
9	DIGITAL EXPANDER communication	1 byte	1: Communication failure
10	Temperature information (TEMP2)	3 byte	8 bit
11	Temperature information (TEMP3)	3 byte	8 bit
12	Module microcomputer communication	1 byte	1: Communication failure
13	Wide microcomputer communication	1 byte	1: Communication failure
14	MAIN IIC	1 byte	1: Communication failure
15	MAIN EEPROM IIC	1 byte	1: Communication failure
16	AUDIO failure	1 byte	1: AUDIO failure
17	FAN failure	1 byte	1: FAN failure

(*) See the table below on contents of PD information.

Data	Power-Down Point
0	None
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	ADDRESS junction
7	ADDRESS resonance
8	DC/DC CONVERTER (DIGITAL)

GAS (Get Adjust Slot): Outputting data related to the picture quality setting • Data are output according to the transmission order and size in the table below. • Data for the SLOT section of the Factory menu are output.

- This command is invalid when the current input function is one other than VIDEO input of the SLOT system.
 This command is invalid when no SLOT is connected or when a SLOT from another vendor is connected.
 This command is invalid in modes other than RS-232C Factory Adjustment mode.

Order	Data Con	tents	Size	Remarks
1	Y-DELAY (F	(Reference data)	3 byte	
2	TI-DELAT	(Offset data)	3 byte	(Note 1)
3	V OUT LEVEL	(Reference data)	3 byte	
4	Y-OUT LEVEL	(Offset data)	3 byte	(Note 1)
5	-CD TINT	(Reference data)	3 byte	
6		(Offset data)	3 byte	(Note 1)
7	-CDR OFFSET	(Reference data)	3 byte	
8	-CDR OFFSET	(Offset data)	3 byte	(Note 1)
9	-CDB OFFSET	(Reference data)	3 byte	
10	-CDB OFFSET	(Offset data)	3 byte	(Note 1)
11	R-Y LEVEL	(Reference data)	3 byte	
12		(Offset data)	3 byte	(Note 1)
13	-B-Y LEVEL	(Reference data)	3 byte	
14	JD-1 LL VLL	(Offset data)	3 byte	(Note 1)

(Note 1): If data are output when Reference mode is selected, the same data as the reference data are output as the offset data.

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GAR: Output data related to the picture quality (RGB1 of the Factory menu) Data are output according to the transmission order and size in the table below. This command is invalid in modes other than RS-232C Factory Adjustment mode.

Order	Data Co	ntents	Size	Remarks
1	AD MAIN CONT	(Reference data)	3 byte	(Note 1)
2	AD MAIN CONT	(Offset data)	3 byte	(Note 1) (Note 2)
3	AD R HIGH	(Reference data)	3 byte	(Note 1)
4		(Offset data)	3 byte	(Note 1) (Note 2)
5	⊣AD G HIGH ⊢	(Reference data)	3 byte	(Note 1)
6		(Offset data)	3 byte	(Note 1) (Note 2)
7	⊢AD B HIGH ⊢	(Reference data)	3 byte	(Note 1)
8		(Offset data)	3 byte	(Note 1) (Note 2)
9	AD R LOW	(Reference data)	3 byte	(Note 1)
10		(Offset data)	3 byte	(Note 1) (Note 2)
11	AD G LOW	(Reference data)	3 byte	(Note 1)
12		(Offset data)	3 byte	(Note 1) (Note 2)
13	-AD B LOW	(Reference data)	3 byte	(Note 1)
14	AD B LOW	(Offset data)	3 byte	(Note 1) (Note 2)
15	-MAT CONT	(Reference data)	3 byte	(Note 1)
16	-MAT CONT	(Offset data)	3 byte	(Note 1) (Note 2)
17	-MAT BRIGHT	(Reference data)	3 byte	(Note 1)
18	TIMA I DRIGHT	(Offset data)	3 byte	(Note 1) (Note 2)
19	-MAT COLOR	(Reference data)	3 byte	(Note 1)
20	-IMAT COLOR	(Offset data)	3 byte	(Note 1) (Note 2)
21	MAT TINIT	(Reference data)	3 byte	(Note 1)
22	MAT TINT	(Offset data)	3 byte	(Note 1) (Note 2)

(Note 1) As for the setting data not related to the current input function/input signal/setting, dummy data are output. (Note 2) If data are output when the Reference mode is selected, the same data as the reference data are output as the offset data.

GPS: Output data related to SCREEN adjustment data • Data are output according to the transmission order and size in the table below.

- · All data are data of an Integrator area.
- This command is valid only in Normal Operation mode and RS-232C Integrator Adjustment mode.

Order	Data Contents	Size	Remarks
1	H.POSITION	3 byte	
2	V.POSITION	3 byte	
3	CLOCK	3 byte	(Note 1)
4	PHASE	3 byte	(Note 1)
5	V.SIZE	3 byte	

(Note 1) When the current input signal mode is VIDEO or INPUT 5(DVI), dummy data(*) are output as adjustment data.

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GPD (Get Power Down), PD (Power Down): Outputting data on PD INFORMATION of the Service Factory MENU

The acquired data are output according to the transmission order and size in the table below.
This command is valid only in RS-232C Factory Adjustment mode and during power-down.
Note: During power-down, data can be obtained by directly executing "GPD" without executing "FAY." However, the ID must be set

Order	Data Contents	Size	Remarks
1	The latest "1stPD INFO"	1 byte	(Note 1)
2	The latest "2ndPD INFO"	1 byte	(Note 1)
3	Hour meter information of the latest PD	7 byte	Upper 5byte: HOUR, Lower 2byte: MINUTE
4	Second latest "1st PD INFO"	1 byte	(Note 1)
5	Second latest "2nd PD INFO"	1 byte	(Note 1)
6	Hour meter information of the second latest PD	7 byte	Upper 5byte: HOUR, Lower 2byte: MINUTE
7	Third latest "1st PD INFO"	1 byte	(Note 1)
8	Third latest "2nd PD INFO"	1 byte	(Note 1)
9	Hour meter information of the third latest PD	7 byte	Upper 5byte: HOUR, Lower 2byte: MINUTE
10	Fourth latest "1st PD INFO"	1 byte	(Note 1)
11	Fourth latest "2nd PD INFO"	1 byte	(Note 1)
12	Hour meter information of the fourth latest PD	7 byte	Upper 5byte: HOUR, Lower 2byte: MINUTE
13	Fifth latest "1st PD INFO"	1 byte	(Note 1)
14	Fifth latest "2nd PD INFO"	1 byte	(Note 1)
15	Hour meter information of the fifth latest PD	7 byte	Upper 5byte: HOUR, Lower 2byte: MINUTE
16	Sixth latest "1st PD INFO"	1 byte	(Note 1)
17	Sixth latest "2nd PD INFO"	1 byte	(Note 1)
18	Hour meter information of the sixth latest PD	7 byte	Upper 5byte: HOUR, Lower 2byte: MINUTE
19	Seventh latest "1st PD INFO"	1 byte	(Note 1)
20	Seventh latest "2nd PD INFO"	1 byte	(Note 1)
21	Hour meter information of the seventh latest PD	7 byte	Upper 5byte: HOUR, Lower 2byte: MINUTE
22	Eighth latest "1st PD INFO"	1 byte	(Note 1)
23	Eighth latest "2nd PD INFO"	1 byte	(Note 1)
24	Hour meter information of the eighth latest PD	7 byte	Upper 5byte: HOUR, Lower 2byte: MINUTE

(Note 1) See the table below on PD information

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Data	Power Down Point
0	None
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	ADDRESS junction
7	ADDRESS resonance
8	DC/DC CONVERTER (DIGITAL)

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GSD (Get Shut Down): Outputting TxD data on SD (Shut Down) INFORMATION of **Service Factory MENU**

The acquired data are output according to the transmission order and size in the table below.
This command is valid only in RS-232C Factory Adjustment mode and during shut down (for 30 seconds until a shutdown occurs or standby).
Note: During power-down, data can be obtained by directly executing "GPD" without executing "FAY." However, the ID must be set beforehand.

Table 1: GSD

Order	Data Contents	Size	Remarks
1	The latest "SD INFO"	1 byte	(Note 1)
2	First latest "SD INFO"	1 byte	(Note 1)
3	Second latest "SD INFO"	1 byte	(Note 1)
4	Third latest "SD INFO"	1 byte	(Note 1)
5	Fourth latest "SD INFO"	1 byte	(Note 1)
6	Fifth latest "SD INFO"	1 byte	(Note 1)
7	Sixth latest "SD INFO"	1 byte	(Note 1)
8	Seventh latest "SD INFO"	1 byte	(Note 1)

(Note 1) See the table below on SD information

Table 2: SD contents

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GET Data	Shut Down Point
1	Panel microcomputer communication failure
2	Module IIC communication failure
3	Condensation
4	Temperature abnormality
5	FAN abnormality
6	Module microcomputer communication failure
7	Wide microcomputer communication failure
8	Main IIC communication failure
9	AUDIO failure

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- GWB (Get White Balance): Outputting data related to picture quality / white balance

 Data are output according to the transmission order and size in the table below.

 This command is valid only in Normal Operation mode, RS-232C Integrator Adjustment mode, and RS-232C Factory adjustment mode.

 In Normal Operation mode and RS-232C Integrator Adjustment mode, data for the current signal and color mode of the current input function in the Integrator area are output.

 In RS-232C Factory Adjustment mode, RGB2 data for the Factory mode are output.

Order	Data Contents	Size	Remarks
1	-CONTRAST	3 byte	
2	CONTRACT	3 byte	(Note 2)
3	BRIGHT	3 byte	
4	DNIGHT	3 byte	(Note 2)
5	COLOR	3 byte	(Note 1)
6	COLON	3 byte	(Note 2)
7	TINT	3 byte	(Note 1)
8	TIINI	3 byte	(Note 2)
9	-R HIGH	3 byte	
10	п піап	3 byte	(Note 2)
11	G HIGH	3 byte	
12	d nidn	3 byte	(Note 2)
13	B HIGH	3 byte	
14	Dilidii	3 byte	(Note 2)
15	R LOW	3 byte	
16	Th LOW	3 byte	(Note 2)
17	G LOW	3 byte	
18		3 byte	(Note 2)
19	-B LOW	3 byte	
20		3 byte	(Note 2)
21	H.ENHANCE (H.SHARP)	3 byte	
22	V.ENHANCE (V.SHARP)	3 byte	

(Note 1) As for the setting data not related to the current input function/input signal/setting, dummy data are output. (Note 2) If data are output when the Reference mode is selected, the same data as the reference data are output as the offset data.

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GSS: Outputting data on SETUP items of the menu mode / Integrator menu

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Data are output according to the transmission order and size in the table below.
This command is valid only in Normal Operation mode, RS-232C Integrator Adjustment mode, and RS-232C Factory adjustment mode.

Order	Data Contents	Size	Output	Remarks
1	COLOR TEMP	1 byte	1: COLOR TEMP1 2: COLOR TEMP2 3: COLOR TEMP3 4: COLOR TEMP4 5: COLOR TEMP5	(Note 1)
2	DIGITAL NR	1 byte	0: OFF 1: LOW 2: MIDDLE 3: HIGH	(Note 1)
3	HIGH CONTRAST	1 byte	0: OFF, 1: ON	
4	PURECINEMA	3 byte	Same as the RS-232C command	(Note 1)
5	COLOR SYSTEM	3 byte	Same as the RS-232C command	(Note 1)
6	CLAMP	1 byte	1: AUTO 2: LOCKED	(Note 1)
7	3DY/C	1 byte	M: MOTION S: STILL	(Note 1)
8	SETTING/VIDEO SIGNAL	3 byte	Same as the RS-232C command	(Note 1)
9	2X2MODE	1 byte	0: OFF 1 to 4: MG1 to MG4 (See "MAGNIFY")	
10	BRIGHT ENHANCE	1 byte	0: OFF, 1: ON	
11	HDTV MODE	3 byte	Same as the RS-232C command	(Note 1)
12	VIDEO INPUT	1 byte	1: COMPONENT1 2: COMPONENT2	(Note 1)
13	Input function	3 byte	IN*	
14	Screen size	1 byte	0: DOT BY DOT 1: 4:3 (TYPE) 2: FULL (TYPE) 3: ZOOM 5: WIDE 6: 100% display	
15	SUB VOLUME (INPUT1)	2 byte	0 to 60	
16	SUB VOLUME (INPUT2)	2 byte	0 to 60	
17	SUB VOLUME (INPUT3)	2 byte	0 to 60	(Note 1)
18	SUB VOLUME (INPUT4)	2 byte	0 to 60	(Note 1)
19	SUB VOLUME (INPUT5)	2 byte	0 to 60	(Note 1)

(Note 1) As for the setting data not related to the current input function/input signal/setting, dummy data are output.

GSO: Outputting data on OPTION items of the menu mode / Integrator menu

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Data are output according to the transmission order and size in the table below.
This command is valid only in Normal Operation mode, RS-232C Integrator Adjustment mode, and RS-232C Factory adjustment mode.

Order	Data Contents	Size	Output	Remarks
1	POWER CONTROL	3 byte	Same as the RS-232C command	
2	OSD display	1 byte	0: OSD display prohibition 1: OSD display permission	
3	FULL MASK	3 byte		Display a RS-232C command of currently set MASK
4	R SIDE MASK LEVEL	3 byte	Adjustment value	
5	G SIDE MASK LEVEL	3 byte	Adjustment value	
6	B SIDE MASK LEVEL	3 byte	Adjustment value	
7	MASK CONTROL	1 byte	0: OFF, 1: ON	
8	ORBITER MODE	1 byte	0: OFF, 1: ON	
9	INVERSE MODE	1 byte	0: OFF, 1: ON	
10	COLOR MODE	1 byte	1: COLOR MODE1 2: COLOR MODE2	
11	MIRROR MODE	1 byte	X: Right and left inverting Y: Top and bottom inverting Z: Top/bottom and right/left inverting N: OFF	
12	FAN CONTROL	1 byte	A: AUTO M: MAX	
13	MONITOR NAME	12 byte		
14	SLOT INPUT	1 byte	0: VIDEO (RGB) 1: COMPONENT1 2: COMPONENT2	(Note 1)
15	TEMPERATURE	3 byte	A/D input value	(Note 2)
16	HOUR METER	5 byte		Unit : H
17	KEY LOCK	1 byte	0: Lock release 1: Lock	

(Note 1) Dummy data (*) are output when a SLOT manufactured by Pioneer is connected.

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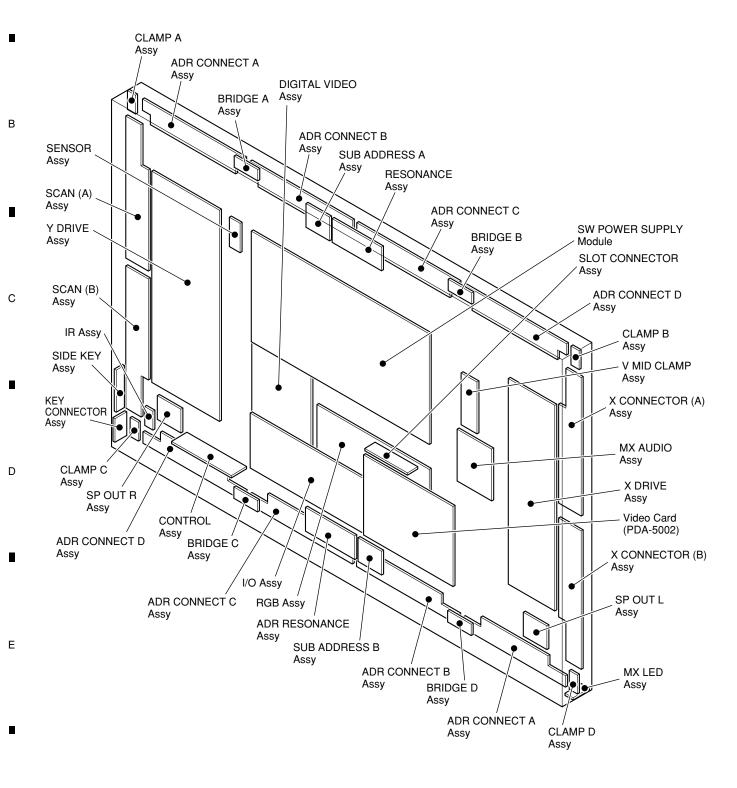
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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 CONFIGURATION OF THE PC BOARD



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Rear View

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7.1.2 DIAGNOSIS FOR SHUTDOWN AND POWER-DOWN BY LED

This unit has self-diagnosis functions against abnormalities in the internal circuits and other operational abnormalities, and if any abnormality is detected, the STANDBY/ON indicator (LED) blinks to alert you of it.

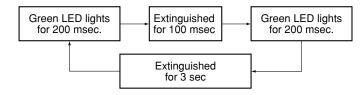
How the indicator blinks and possible failure points and power-down points are explained below:

Shutdown

• Operations : When a microcomputer detected abnormality, it turns the power supply OFF.

· LED display: Blinking in green

Example: How the LED blinks when DIGITAL-IIC communications fail



Number of Blinking Reason	
1	Panel Microcomputer failure
2	DIGITAL-IIC communication failure
3	Condensation
4	Temperature abnormality
5	FAN abnormality
6	Module microcomputer failure
7	Wide microcomputer failure
8	RGB-IIC communication failure
9	Audio failure

How to release shutdown

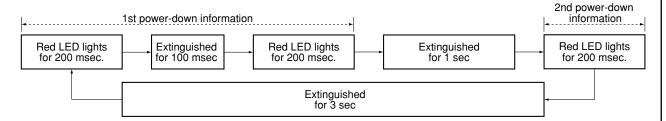
If the Power key on the remote control unit is pressed, the shutdown status is released, and the unit will be turned on. (It is not necessary to press the MAIN POWER button to turn off the unit.)

Power-down

- Operations : In an emergency, the protection circuits are activated, and the power is turned off.
- · LED display: Blinking in red

Note: If more than two protection circuits are activated at almost the same time, the LED indicates this by its blinking-pattern.

Example: How the LED blinks for the first power-down (Y-DC/DC CONVERTER) and the second power-down (Y DRIVE)



Number of blinks	Failure Point	
1	Y-DRIVE	
2	Y-DC/DC CONVERTER	
3	X-DC/DC CONVERTER	
4	X-DRIVE	
5	Power supply	
6	Address junction	
7	Address resonance	
8	DIGITAL-DC/DC CONVERTER	

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How to release power-down

Set the MAIN POWER button to OFF, and wait for about 30 seconds until the LED for PD (power-down) in the power-supply module is extinguished. Wait another 5 seconds, then recover the unit by setting the MAIN POWER button to ON.

Note: After power-down is released, the unit restarts and goes in to Standby mode.

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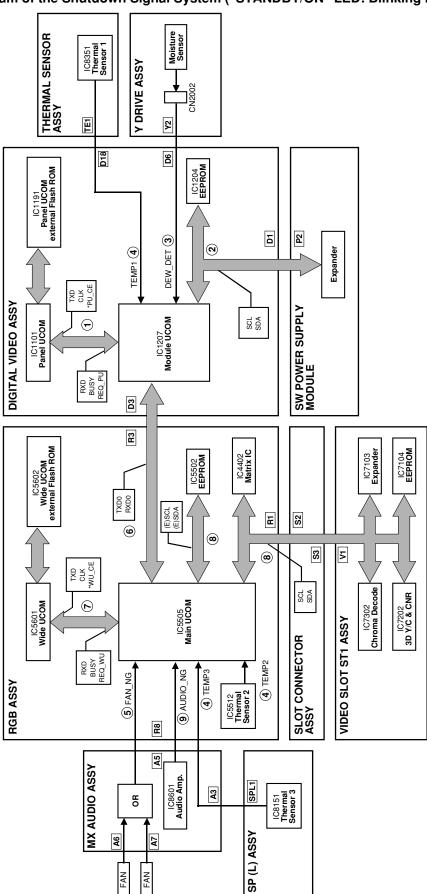
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Note: The figures ① - ⑧ indicate the number of times the "STANDBY/ON" LED blinks when shutdown occurs in the corresponding route.

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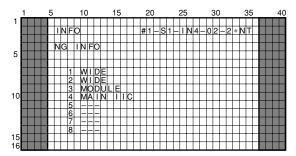
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Diagnosis Method in Shutdown

The data on the past eight shutdowns are stored in memory.

① OSD display of the Shutdown NG history

The shutdown NG history is displayed in "INFORMATION" of the Factory menu.



Display of the PD contents

Shutdown Point	OSD Display
Panel microcomputer communication failure	PANEL
Module IIC communication failure	MOD IIC
Condensation	DEW
Temperature abnormality	TEMP
FAN abnormality	FAN
Module microcomputer communication failure	MODULE
Wide microcomputer communication failure	WIDE
Main IIC communication failure	MAIN IIC
AUDIO failure	AUDIO

② Shutdown NG history by RS-232C command "GSD"

Order	Data Contents	Size
1	The latest "SD INFO"	1 byte
2	First latest "SD INFO"	1 byte
3	Second latest "SD INFO"	1 byte
4	Third latest "SD INFO"	1 byte
5	Fourth latest "SD INFO"	1 byte
6	Fifth latest "SD INFO"	1 byte
7	Sixth latest "SD INFO"	1 byte
8	Seventh latest "SD INFO"	1 byte

Shutdown Point	OSD Data
Panel microcomputer communication failure	1
Module IIC communication failure	2
Condensation	3
Temperature abnormality	4
FAN abnormality	5
Module microcomputer communication failure	6
Wide microcomputer communication failure	7
Main IIC communication failure	8
AUDIO failure	9

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Shutdown diagnosis

1) Panel microcomputer failure

Condition: When the module microcomputer failed in communication

with the panel microcomputer

Results : An OSD is displayed for 30 seconds after the failure is

detected; then the power is shut down.

Possible causes

· Open/short-circuit of the communication lines in the assembly

2 DIGITAL-IIC communication failure

Condition: When the module microcomputer failed in communication

with an external EEPROM or EXPANDER

Results : An OSD is displayed for 30 seconds after the failure is

detected; then the power is shut down.

Note: A DIGITAL-IIC communication failure may occur in Standby mode.

Possible causes

- Open / Short-circuit of communication line in the assemblies.
- Breaking of wire between the following point:
 DIGITAL VIDEO Assy (D1)

 SW POWER SUPPLY Module (P2).

3 Condensation detection

Condition: When condensation has formed inside the unit

Results : As soon as condensation is detected, the unit will shut down.

Possible cause other than condensation

 Disconnection of CN2002 between the condensation sensor and the Y DRIVE Assy

4 Abnormally high temperature

Condition: When the internal temperature of the unit becomes

abnormally high

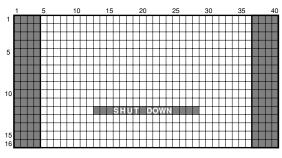
Results : An OSD is displayed for 30 seconds after the failure is

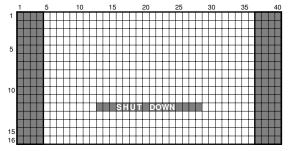
detected; then the power is shut down.

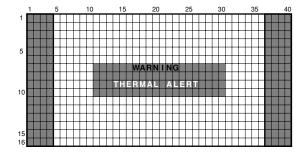
Possible causes if this abnormality occurs in an environment in which the temperature is not so high

- Disconnection between the SP TERMINA (L) Assy (SPL1) and MX AUDIO Assy (A3).
- Disconnection between the MX AUDIO Assy (A5) and RGB Assy (R8).
- Disconnection between the DIGITAL VIDEO Assy (D18) and temperature sensor 1 (TE1).









Reference

Shutdown temperature of each temperature sensor

TEMP2 data ≥ 150 (= 80°C)

TEMP3 data ≥ 101 (= 56°C)

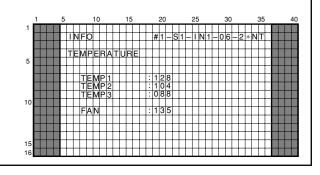
As for the TEMP 1 sensor, a shutdown occurs when a disconnection of connectors is detected, but does not occur because of temperature.

Temperature displayed in "INFORMATION" of the Factory menu

TEMP1 (°C) = TEMP1 (data) -50

TEMP2 (°C) = TEMP2 (data) /2+5

TEMP3 (°C) = TEMP3 (data) /2+5



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5 FAN failure

Condition: Fan failure

: An OSD is displayed for 30 seconds after the failure is

detected; then the power is shut down.

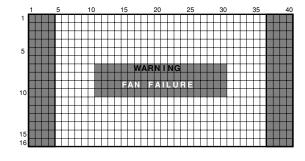
Note: Fan failure is detected only in the following cases:

- · When the FAN CONTROL is set to MAX
- · When the FAN CONTROL is set to AUTO, and the temperature at the TEMP3 sensor is 30°C or higher

(Fan failure is not detected while the fan is not activated even if connectors become disconnected.)

Possible causes

- Disconnection of a junction connector between FAN (A6) and the MX AUDIO Assy (A7).
- Disconnection of a connector between the MX AUDIO Assy (A5) and the RGB Assy (R8).
- Forced stop of the fan caused by a foreign object being caught in the fan.



6 Module microcomputer failure

Condition: When the main microcomputer has failed in communication

with the module microcomputer

: An OSD is displayed for 30 seconds after the failure is

detected; then the power is shut down.

Note: A module microcomputer communication failure may occur in

Standby mode.

Possible causes

- · Open / Short-circuit of communication line in the Assy.
- · Disconnection of a connector between the RGB Assy (R3) and the DIGITAL VIDEO Assy (D3).
- Writing defectiveness of module microcomputer (IC1207) software.

7 Wide microcomputer failure

Condition: When the main microcomputer failed in communication

with the wide microcomputer

: An OSD is displayed for 30 seconds after the failure is

detected; then the power is shut down.

Possible causes

- · Open / Short-circuit of communication line in the Assy.
- Writing defectiveness of the wide-microcomputer (IC5601) software.
- · Writing defectiveness of the external Flash ROM (IC5602) of the wide-microcomputer.

® RGB-IIC communication failure

Condition: When the main microcomputer failed in IIC communication Results : An OSD is displayed for 30 seconds after the failure is

detected; then the power is shut down.

Note: An RGB-IIC communication failure may occur in Standby mode.

Possible causes

- · Open / Short-circuit of communication line in the Assy.
- · Incomplete insertion of a SLOT or a SLOT junction PC board

Note: In a case of incomplete insertion of a SLOT, the following symptoms may occur in addition to the above results.

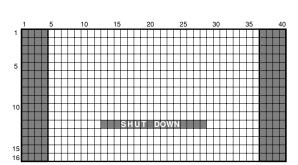
- · Audio signals to INPUT 3 and INPUT 4 are not output.
- Switching to INPUTs 3-5 (SLOT function) is impossible.
- Video signals to INPUT 1 and INPUT 2 are not displayed.

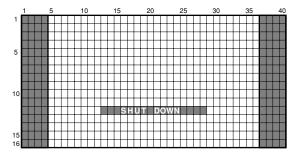
Condition: When a DC component is added on the speaker output line Results: The power is shut down as soon as a failure is detected.

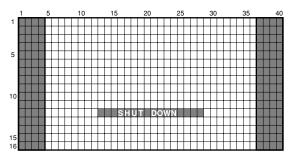
Possible causes

Audio failure

- · Disconnection of a connector between the MX AUDIO Assy (A5) and the RGB Assy (R8).
- Short-circuiting between + and of C8615 and C8622.







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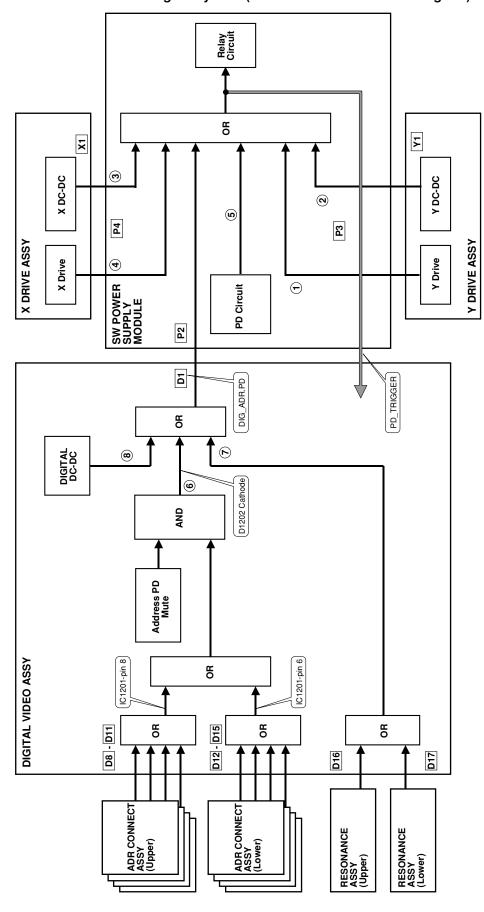
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• Block Diagram of the Power Down Signal System ("STANDBY/ON" LED: Blinking red)

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Note: The figures ① - ⑧ indicate the number of times the "STANDBY/ON" LED blinks when shutdown occurs in the corresponding route.

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• Types and function of the various protection circuits (P.D. circuits)

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Assy Name	OSD Display	Red "STANDBY/ ON" LED Number of Blinks	Type of P.D. Circuits	Function	Remarks
	Y-DRV	1	VCP OCP	P.D. by VCP overcurrent	
			VOFS OVP	P.D. by VOFS overvoltage	
Y DRIVE Assy			VOFS UVP	P.D. by VOFS undervoltage (= overcurrent)	
T DRIVE Assy	Y-DDC	2	VH OVP	P.D. by VH overvoltage	
			VH UVP	P.D. by VH undervoltage (= overcurrent)	
			IC5V UVP	P.D. by IC5V undervoltage (= overcurrent)	
	X-DDC	3	VRN OVP	P.D. by VRN overvoltage	
X DRIVE Assy	X-DDC	3	VRN UVP	P.D. by VRN undervoltage (= overcurrent)	
A DITIVE Assy	X-DRV	4	VCP OCP	P.D. by VCP overcurrent	
			VSUS OVP	P.D. by VSUS overvoltage	
			VSUS UVP	P.D. by VSUS undervoltage (= overcurrent)	
			VADR OVP	P.D. by VADR overvoltage	
			VADR UVP	P.D. by VADR undervoltage (= overcurrent)	
			15V OVP	P.D. by 15V overvoltage	
SW POWER SUPPLY			15V UVP	P.D. by 15V undervoltage (= overcurrent)	
			12V UVP	P.D. by 12V undervoltage (= overcurrent)	
	POWER	5	6.5V OVP	P.D. by 6.5V overvoltage	
Module		5	6.5V UVP	P.D. by 6.5V undervoltage (= overcurrent)	
			13.5V UVP	P.D. by 13.5V undervoltage (= overcurrent)	
			-9V UVP	P.D. by -9V undervoltage (= overcurrent)	
			+B OVP	P.D. by +B overvoltage	
			+B OCP	P.D. by +B overcurrent	
			AC200V P.D.	P.D. by AC200V applied	Note 1
				PFC module overheat protection	
				VSUS arc resistance overheat protection	
ADR CONNECT Assy	ADRES	6	ADR.PD	P.D. by disconnection of the connectors	
RESONANCE Assy	ADR-K	7	ADR.K.PD	P.D. by ICP open and TCP defective	
			5.0V OVP	P.D. by 5V overvoltage	
			5.0V UVP	P.D. by 5V undervoltage (= overcurrent)	
DIGITAL VIDEO Assy	DC-DC	8	3.3V OVP	P.D. by 3.3V overvoltage	
DIGITAL VIDLO ASSY	00-00		3.3V UVP	P.D. by 3.3V undervoltage (= overcurrent)	
			2.5V OVP	P.D. by 2.5V overvoltage	
		[2.5V UVP	P.D. by 2.5V undervoltage (= overcurrent)	

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Reference

OVP: Over Voltage Protect UVP: Under Voltage Protect OCP : Over Current Protect PD: Power Down

Note 1: The AC200V P.D. circuit is not mounted in the PDP-503MXE model.

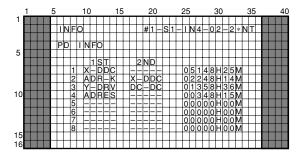
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• Diagnosis Method in Power Down

The data (1st/2nd/time stamp) on the past eight power-downs are stored in memory.

① OSD display of the PD history

The PD history displayed in "INFORMATION" of the Factory menu.



Display of PD point

Power-Down Point	OSD Display
Y-DRIVE	Y-DRV
Y-DC/DC COVERTER	Y-DDC
X-DC/DC CONVERTER	X-DDC
X-DRIVE	X-DRV
Power supply	POWER
ADDRESS junction	ADRES
ADDRESS resonance	ADR-K
DC/DC CONVERTER (DIGITAL)	DC-DC

Time stamp display

[OOOOOH]: HOUR, [OOM]: MINUTE

Example:

Time stamp display is $[65432H10M] \rightarrow 65432$ hours 10 minutes

② Retrieval of PD history by RS-232C command "GPD" Data of PD point

Order	Data contents	Size
1	The latest "1st PD" point	1 byte
2	The latest "2nd PD" point	1 byte
3	The latest PD time stamp	7 byte
4	Second latest "1st PD" point	1 byte
5	Second latest "2nd PD" point	1 byte
6	Second latest PD time stamp	7 byte
7	Third latest "1st PD" point	1 byte
8	Third latest "2nd PD" point	1 byte
9	Third latest PD time stamp	7 byte
10	Fourth latest "1st PD" point	1 byte
11	Fourth latest "2nd PD" point	1 byte
12	Fourth latest PD time stamp	7 byte
13	Fifth latest "1st PD" point	1 byte
14	Fifth latest "2nd PD" point	1 byte
15	Fifth latest PD time stamp	7 byte
16	Sixth latest "1st PD" point	1 byte
17	Sixth latest "2nd PD" point	1 byte
18	Sixth latest PD time stamp	7 byte
19	Seventh latest "1st PD" point	1 byte
20	Seventh latest "2nd PD" point	1 byte
21	Seventh latest PD time stamp	7 byte
22	Eighth latest "1st PD" point	1 byte
23	Eighth latest "2nd PD" point	1 byte
24	Eighth latest PD time stamp	7 byte

Power-Down Point	"GPD" Data
Y-DRIVE	1
Y-DC/DC COVERTER	2
X-DC/DC CONVERTER	3
X-DRIVE	4
Power supply	5
ADDRESS junction	6
ADDRESS resonance	7
DC/DC CONVERTER (DIGITAL)	8

Time stamp data

upper 5 byte: HOUR, lower 2 byte: MINUTE

Example:

Time stamp is [6543210] \rightarrow 65432 hours 10 minutes

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K2719 Lo VOFS OVP K2719 Lo VOFS UVP K2719 Lo VH UVP K2713 Lo VH UVP K2713 Lo VH UVP K3708 Lo VH UVP K3708 Lo VH UVP K3708 Lo VH UVP K3705 Lo VH UVP K3706 Lo VH UVP K1901 Lo VH UVP K1	Number of Blinks	P.D. Point in Operation	Error Point	Possible Part in failure	Circuit State	P.D. Circuit in Operation	Diagnosis Condition
V DC DC VOPES DID CONIV. BLOCK (Y DRIVE Assy) ICCZTOL, ICCZTOB, ICCZTOB KZ778 LD VOPES DID CONIV. BLOCK (Y DRIVE Assy) ICCZTOL, ICCZTOB, ICCZTOB KZ778 LD VOPES DID CONIV. BLOCK (Y DRIVE Assy) ICCZTOL, ICCZTOB, ICCZTOB KZ778 LD V HO UVP Y DC DC VH DD CONIV. BLOCK (Y DRIVE Assy) ICCZTOL, ICCZTOB, ICCZTOB ICCZTOB, ICCZ	-	Y DRIVE	Y DRIVE Assy	IC2206, IC2214 (Pulse module), IC2203, IC2204, IC2212, IC2213, IC2216, IC2217, R2209	K2211 Lo	VCP OCP	
YOCE DD CONV. BLOCK (Y DRIVE Assy) CG2TQ, ICG208, ICG208 CG200 KG709 LD VOFS UVP			VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2702, IC2709, IC2715	K2712 Lo	VOFSOVP	
Y DC DC W DD COMV. BLOCK (Y DRIVE Assy) CC2712, ICZ716 RZ772, ICZ76 W DD COMV. BLOCK (Y DRIVE Assy) CC2712, ICZ716 W DD COMV. BLOCK (Y DRIVE Assy) CC2712, ICZ72, ICZ726 W DD COMV. BLOCK (Y DRIVE Assy) CC2712, ICZ726 W DD COMV. BLOCK (Y DRIVE Assy) CC2712, ICZ726 W DD COMV. BLOCK (Y DRIVE Assy) CC2702, ICZ702, ICZ772 W DD COMV. BLOCK (Y DRIVE Assy) CC2702, ICZ702, ICZ772 W DD COMV. BLOCK (Y DRIVE Assy) CC2702, ICZ702, ICZ772 W DD COMV. BLOCK (Y DRIVE Assy) CC2702, ICZ702, ICZ702 W DD COMV. BLOCK (X DRIVE Assy) CC2702, ICZ702, ICZ702 W DD COMV. BLOCK (X DRIVE Assy) CC3702, ICZ702, ICZ702 W DD COMV. BLOCK (X DRIVE Assy) CC3702, ICZ702, ICZ702 W DD COMV. BLOCK (X DRIVE Assy) W			VOES D'D CONIV BI OCK /V DBIVE Assets	IC2701, IC2702, IC2709, IC2715	0000		Drive section (control signals, output elements etc.) in normal operation
YD DD CONV. BLOCK (Y DRIVE Assy) ICZT/L. ICZT/E. ICZT/E CZT/L. ICZT/E. ICZT/E VH D/D CONV. BLOCK (Y DRIVE Assy) ICZT/L. ICZT/E. ICZT/E VH D/D CONV. BLOCK (Y DRIVE Assy) ICZT/L. ICZT/E. ICZT/E VH D/D CONV. BLOCK (Y DRIVE Assy) ICZT/L. ICZT/E VH D/D CONV. BLOCK (Y DRIVE Assy) ICZT/L. ICZT/E VH D/D CONV. BLOCK (Y DRIVE Assy) ICZT/L. ICZT/L. ICZT/T VEXT/L. ICZT/L. ICZT/T VH D/D CONV. BLOCK (Y DRIVE Assy) ICZT/L. ICZT/L. ICZT/T VEXT/L. ICZT/L. ICZT			VOFS D/D COINV. BLOCK (1 DRIVE ASSY)	Q2211, Q2212, R2277, IC2208, IC2210	KZ/09 Lo	VOFS UVP	VOFS D/D CONV. BLOCK in normal operation
Y DC DC			VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2712, IC2716	K2719 Lo	VH OVP	
SCAN (A), (B) Assy SCAN (C CZ704, ICZ706, ICZ777 ICZ704, ICZ706, ICZ707 I	0	Y DC DC	VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2711, IC2712, IC2716			Drive section (control signals, output elements etc.) in normal operation
CGZON LOC CONV. BLOCK (Y DRIVE Assy) CGZOA, ICZ704, ICZ704, ICZ704, ICZ704, ICZ707, ICZ704, ICZ704, ICZ707, ICZ704, ICZ707, ICZ704, ICZ707, ICZ704, ICZ707, ICZ704, ICZ707, ICZ707			SCAN (A), (B) Assy	SCAN IC	K2718 Lo	VHUVP	VH D/D CONV. BLOCK in normal operation
SCAN (A), (B) Assy SCAN IC			IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717	ı		SCAN Assy in normal operation
CISY DID CONV. BLOCK (Y DRIVE Assy) C2704, IC2706, IC2717 C3702, IC3702 C3702			SCAN (A), (B) Assy	SCAN IC	7	0711730	IC5V D/D CONV. BLOCK in normal operation
X DC DC VRN DID CONV. BLOCK (X DRIVE Assy) (C3702, IC3712 K3708 Lo VRN DVD X DRIVE Assy X DRIVE Assy C3701, IC3201 (pulse module), IC3103, IC3104, K3705 Lo VRN UVP X DRIVE Assy IC3200, IC3201 (pulse module) IC3200, IC3201 (pulse module) K3703 Lo VCP OCP X DRIVE Assy IC3200, IC3201 (pulse module) K3703 Lo VCP OCP Y DRIVE Assy IC3200, IC3201 (pulse module) K3703 Lo VCP OCP MX AUDIO Assy IC3200, IC3201 (pulse module) K3703 Lo VCP OCP MX AUDIO Assy IC3200, IC3201 (pulse module) K3703 Lo VCP OCP MX AUDIO Assy IC3200, IC3201 (pulse module) K3703 Lo VCP OCP MX AUDIO Assy IC3200, IC3201 (pulse module) K3703 Lo VCP OCP MX AUDIO Assy IC3200, IC3201 (pulse module) K3703 Lo VCP OCP BDD CONV. BLOCK (DIGITAL VIDEO Assy) DISconnection of the DB - D15 connections K1901 Lo 5.0V OVP DDD CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1901 Lo 5.0V OVP DD CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K900 Lo			IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717	NZ/ 13 L0	2000	SCAN Assy in normal operation
X DC DC YRN D/D CONV. BLOCK (X DRIVE Assy) IC3701, IC3702, IC3712 K3705 Lo VRN UVP X DRIVE Assy C32200, IC3201 (pulse module), IC3103, IC3104, IC3106, IC3107, IC3106, IC3107, IC3106, IC3107, IC3106, IC3107, IC3106, IC3107, IC3106, IC3107,			VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3702, IC3712	K3708 Lo	VRN OVP	
X DRIVE Assy C3220, IC3201 (pulse module), IC3103, IC3104, K3103 Lo VCP OCP X DRIVE Assy IC3200, IC3201 (pulse module) K3103 Lo VCP OCP X DRIVE Assy IC3200, IC3201 (Pulse module) K3103 Lo VCP OCP Y DRIVE Assy IC3200, IC3201 (Pulse module) K3103 Lo VCP OCP MX AUDIO Assy IC3200, IC3201 (Pulse module) K3103 Lo VCP OCP PS RESONANCE Assy, DID CONV. BLOCK (DIGITAL VIDEO Assy, DID CONV. BLOCK (DIGITAL VIDEO Assy, DID CONV. BLOCK (DIGITAL VIDEO Assy) TCP damage of IC3024 (IC10), disconnection of the DIS connection of the DIS connection of the panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective, external Flash ROM of the panel MICROSOME ASSY (DIGITAL VIDEO Assy) ADR. K. PD DID CONV. BLOCK (DIGITAL VIDEO Assy) IC1301 K1901 Lo 5.0V UVP DID CONV. BLOCK (DIGITAL VIDEO Assy) IC1301 K1902 Lo 5.0V UVP DID CONV. BLOCK (DIGITAL VIDEO Assy) IC1301 K1902 Lo 3.3V UVP DID CONV. BLOCK (DIGITAL VIDEO Assy) IC1301 K1902 Lo 3.3V UVP	ဗ	X DC DC	VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3701, IC3702, IC3712	- 1 70707		Drive section (control signals, output elements etc.) in normal operation
X DRIVE X DRIVE Assy IC3200, IC3201 (pulse module), IC3103, IC3104, K3103 Lo VCP OCP X DRIVE Assy IC3200, IC3201 (Pulse module) K3103 Lo VCP OCP Y DRIVE Assy IC3200, IC3201 (Pulse module) K3103 Lo MX AUDIO Assy IC3200, IC3201 (Audio IC) ADDRESS CONNECT A - D Assy, IC3201 (Audio IC) PS ADDRESS CONNECT A - D Assy, DISCONNECT A-D Assy SW POWER SUPPLY Module SW POWER SUPPLY Module ADR ADDRESS CONNECT A-D Assy DISconnection of the DB - D15 connection of the D10 connection			X DRIVE Assy	Q3122	07 60/62	200	VRN D/D CONV. BLOCK in normal operation
X DRIVE Assy IC3200, IC3201 (Pulse module) Y DRIVE Assy IC2206, IC2214 (Pulse module) WAX AUDIO Assy IC2206, IC2214 (Pulse module) WAX AUDIO Assy IC2206, IC2214 (Pulse module) WAX AUDIO Assy, DD CONV. BLOCK (DIGITAL VIDEO Assy) SW POWER SUPPLY Module SW POWER SUPPLY MODIO IN GRAPH	4	X DRIVE	X DRIVE Assy	IC3200, IC3201 (pulse module), IC3103, IC3104, IC3106, IC3107, IC3110, IC3113, R3109	K3103 Lo	VCP OCP	
Y DRIVE Assy IC2206, IC2214 (Pulse module) MX AUDIO Assy IC8601 (Audio IC) ADDRESS CONNECT A - D Assy, IC8601 (Audio IC) ADDRESS CONNECT A - D Assy, IC8601 (Audio IC) SW POWER SUPPLY Module SW POWER SUPPLY Module SW POWER SUPPLY Module ADR			X DRIVE Assy	IC3200, IC3201 (Pulse module)			In a case where PD does not occur if the P4 connector is disconnected
PS ADDRESS CONNECT A - D Assy, RESONANCE Assy, D/D CONV. BLOCK (DIGITAL VIDEO Assy) By PowER SUPPLY Module SW POWER SUPPLY Module ADB. PD SW POWER SUPPLY Module SW POWER SUPPLY Module ADB. PD TCP damage of IC6704 (ICP), disconnection of the panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective. K1901 Lo			Y DRIVE Assy	IC2206, IC2214 (Pulse module)			In a case where PD does not occur if the P3 connector is disconnected
PS ADDRESS CONNECT A - D Assy, D/D CONV. BLOCK (DIGITAL VIDEO Assy) SW POWER SUPPLY Module ADDRESS CONNECT A-D Assy ADDRESS CONNECT A-D Assy Disconnection of the D8 - D15 connectors ADB. PD ADR ADR RESONANCE Assy DI6 and D17 connectors, panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective. ADR. K. PD ADR D/D CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1901 LO 5.0V OVP D/D CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1903 LO 5.0V OVP D/D CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1902 LO 5.0V OVP D/D CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1903 LO 5.0V OVP	ιc		MX AUDIO Assy	IC8601 (Audio IC)	1		In a case where PD does not occur if the P6 connector is disconnected
ADR SW POWER SUPPLY Module SW POWER SUPPLY Module SW POWER SUPPLY Module ADR. PD ADR ADDRESS CONNECT A-D Assy Disconnection of the D8 - D15 connectors ADR. RD ADR. RD ADR K RESONANCE Assy TCP damage of IC6704 (ICP), disconnection of the D16 and D17 connectors, panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective. ADR. K. PD defective, R1901 LO 5.0V OVP R1902 LO 5.0V OVP R1902 LO 5.0V UVP R1902 LO 5.0V UVP R1903 LO 5.0V UVP R1903 LO 3.3V UVP R1904 LO 3.3V UVP R1904 LO 3.3V UVP R1905 LO 2.5V OVP R1905 LO 2.5V)	S	ADDRESS CONNECT A - D Assy, RESONANCE Assy, D/D CONV. BLOCK (DIGITAL VIDEO Assy)				In a case where PD does not occur if Pin 5 of the P2 connector is disconnected
ADR ADRESS CONNECT A-D Assy Disconnection of the D8 - D15 connectors ADR - PD ADR ADR RESONANCE Assy TCP damage of IC6704 (ICP), disconnection of the D16 and D17 connectors, panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective. ADR. K. PD D/D CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1901 Lo 5.0V OVP D/D CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1903 Lo 3.3V OVP DC CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1904 Lo 3.3V UVP			SW POWER SUPPLY Module	SW POWER SUPPLY Module			In a case where the voltage is not output even if the P4, P3, P6 connectors and Pin 5 of the P2 connectors are disconnected
ADR K RESONANCE Assy ADR. K. PD DIGITAL DIGITAL DIGITAL DIG CONV. BLOCK (DIGITAL VIDEO Assy) DIGITAL R1903 Lo S.3V OVP K1905 Lo S.3V OVP C1901 9	ADR	ADDRESS CONNECT A~D Assy	Disconnection of the D8 - D15 connectors		ADR. PD		
DIGITAL DC CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1901 Lo 5.0V OVP DIGITAL DC CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1903 Lo 5.0V UVP DC CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1904 Lo 3.3V OVP	7	ADR K	RESONANCE Assy	TCP damage of IC6704 (ICP), disconnection of the D16 and D17 connectors, panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective.		ADR. K. PD	Note on PS PD The Red "STANDBY/ON" LED blinks five times (power supply PD) When the internal protection circuit of the SW POWER SUPPLY Module worked
DIGITAL DC DON. BLOCK (DIGITAL VIDEO Assy) IC1901 K1902 Lo 5.0V UVP DC CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1904 Lo 3.3V UVP			D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1901 Lo	5.0V OVP	
DIGITAL DC DCNV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1903 Lo 3.3V OVP DC DC K1904 Lo 3.3V UVP DC DC D/D CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1905 Lo 2.5V OVP					K1902 Lo	5.0V UVP	
DC DC D/D CONV. BLOCK (DIGITAL VIDEO Assy) IC1901 K1905 Lo 2.5V OVP L	α	DIGITAL	D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1903 Lo	3.3V OVP	Care must be taken because five blinks of the red LED does not always mean that the
IC1901 K1905 Lo 2.5V OVP L)	DC DC			K1904 Lo	3.3V UVP	protection circuit of the SW POWER SUPPLY Module is activated
			D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1905 Lo	2.5V OVP	

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Supplementary information

1. Power on/off switch for the large-signal system (SW102)

Function: Only the power for the small-signal system (15V, 12V, 6.5V, 13.5V, and -9V) is on, and the power for the large-signal system (VSUS, VADR) is

off.
Usage: Use when only an operational check for the small-signal system is required.

Supplementary information:

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When this switch is to be used, the wires of pin 5 (DIG, ADR, and PD) of the P2 connector of the power-supply module should be disconnected to prevent the PD circuit from operating. To turn the power of the large-signal system off without using this switch, operation from an external PC through RS-232C commands "DRF" is basically required. In this case, the above procedure is not required, as the PD circuit is muted by software.

How to turn on the power with a command sent via RS-232C communication when the large signal system's power is off

- 1 Check that the unit is in Standby mode.
- ② Transmit the RS-232C command "DRF."
- 3 Turn on the power using the remote control unit, side keys, or the command "PON."

Note: Once the power is turned off, the setting of the large signal system power returns to ON.

If you wish to turn on the power when the large signal system's power is off, transmit the DRF command each time.

2. 200V AC power-down switch (SW101)

Function: While 200V AC voltage is applied, operation of the PD circuit is turned on and off (ON when the switch is set to 100V AC, and OFF when the switch is set to 200V AC).

Setting: For the MXE model only, the switch is set to 200V, and for other models, it is set to 100V.

3. Temperature compensation of the VOFS voltage for the drive system

DIGITAL VIDEO ASSY

15V DC/DC

(5V, 3.3V, 2.5V)

5 0V

3.3V

→ 2.5V

Function: Control the power supply voltage mentioned above according to temperature. (Temperature compensation works so that the voltage is lowered on the lower-temperature side, and is raised on the higher-temperature side.)

Purpose: To improve the yield by compensating the temperature characteristics of the panel.

Supplementary information:

For this model, temperature compensation is performed only for the VOFS voltage, and not for the VSUS voltage, and it is controlled by software.

4. When a fuse blows

- If a fuse blows, never turn the power on again only after replacing the fuse. (In most cases, the fuse itself did not have any problem. So as long as factors of overcurrent have not been removed, chances of destruction increase every time the power is turned on. In the worst case, about a dozen parts may be destroyed.)
- Generally, the whole power-supply-module assembly must be replaced.

5. Voltage adjustment of the panel drive

As this model employs the electronic VR system for the VSUS and VOFS voltages, and as the voltage-adjustment data are stored in the DIGITAL assembly, voltage adjustment of the panel drive is not necessary when the power-supply modules are changed. (For VADR, VH, and VRN, adjustments with semifixed VR controls are necessary.)

For this model, as the power-supply block has been developed and designed by an outside vendor, at the point you know which module is a cause of failure (through diagnosis described elsewhere in this manual), change the corresponding modules, and do not diagnose or repair the module.

Similarly, the switches and the semifixed VRs inside the powersupply module must not be adjusted without a special reason.

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7.1.3 AUTOMATIC BACKUP OF DIGITAL VIDEO ASSY DATA

Description

Data in the EEPROM (IC1204/2 kbit) mounted on the DIGITAL VIDEO Assy are automatically copied to an area (Area A in the figure below) of the EEPROM (IC5502/64 kbit) mounted on the RGB Assy as backup data in a case of assembly replacement.

Therefore, the adjustment data for the unit (data in the EEPROM of the DIGITAL VIDEO Assy) can be maintained even after replacement of the DIGITAL VIDEO and/or RGB Assy.

Note: As for the COLOR and TINT items, even though they are adjustment data for the unit, as they are stored in Area C (see the figure below) they are not automatically backed up.

Contents of EEPROM on the DIGITAL VIDEO Assy

```
    Adjustment value of PANEL White Balance

   PANEL-R HIGH
                           : Adjustment item for the unit
   PANEL-G HIGH
                           : Adjustment item for the unit
   PANEL-B HIGH
                           : Adjustment item for the unit
                                                           Data are automatically backed up.
   PANEL-R LOW
                           : Adjustment item for the unit
   PANEL-G LOW
                           : Adjustment item for the unit
   PANEL-B LOW
                           : Adjustment item for the unit

    Adjustment value of ABL

                                                          Data are automatically backed up.
   ABL LEVEL
                           : Adjustment item for the unit

    Adjustment value of drive system

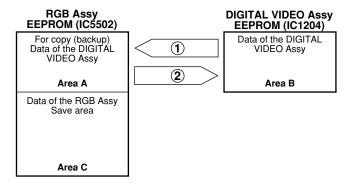
   X-SUS-B
                           : Adjustment item for the unit
   X-SUS-G
                           : Adjustment item for the unit
                           : Adjustment item for the unit
   Y-SUS-B
                                                           Data are automatically backed up.
   Y-SUS-G
                           : Adjustment item for the unit
   V-SUS
                           : Adjustment item for the unit
   V-OFFSET
                           : Adjustment item for the unit
· Pulse meter
```

- Pulse meterHour meter
- Various setting data of FULL MASK

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■ Flow of basic automatic backup

Data in Areas A and B are judged according to keyword as to whether they have already adjusted or not, then copying is automatically performed.



- ① Automatic copying is performed every time the Service Factory mode is entered (regardless of the keyword.)
- When the power is turned on, keyword checking is performed, then automatic copying is performed if the keyword for the DIGITAL VIDEO Assy (Area B) is "not adjusted," and that for the RGB Assy is "adjusted."

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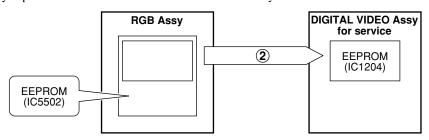
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■ Actual automatic backup operation

1. When the DIGITAL VIDEO Assy is replaced (Using the service Assy)

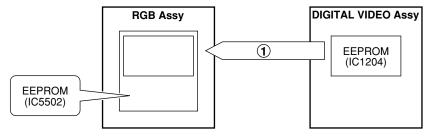
Keyword modification is not needed.

Replace the DIGITAL VIDEO Assy with that for service, then turn on the power. Thus, the backup data in the EEPROM of the RGB Assy are automatically copied to the EEPROM of the DIGITAL VIDEO Assy.



2. When the RGB Assy is replaced (whether replaced with the assembly for service or not does not matter)

Replace the RGB Assy, then enter the Service Factory mode. The backup data in the EEPROM of the DIGITAL VIDEO Assy are then automatically copied to the EEPROM of the RGB Assy.



3. When the DIGITAL VIDEO Assy is replaced (reuse of a repaired part) When installing the repaired DIGITAL VIDEO Assy in other unit

It is necessary to change the keyword of the DIGITAL VIDEO Assy to be reused to "not adjusted."

Before removing the DIGITAL VIDEO Assy to be reused, enter the Service Factory mode and execute SERVICE PARTS in the INITIALIZE item. (The unit must operate properly, and OSD display must be possible.) If SERVICE PARTS cannot be executed, readjustment is required.

Note: If a repaired DIGITAL VIDEO Assy is mounted in another unit (Unit 2) without this change of keyword, the automatic backup function will not work properly. Moreover, if Unit 2 is set to Service Factory mode in this condition, data in force before the repair of the DIGITAL VIDEO Assy will be copied to Area A of the RGB Assy of Unit 2, overwriting the data necessary for Unit 2. Once overwritten, the original data will not be restored.

4. When the DIGITAL VIDEO Assy is replaced (reuse of a repaired part) When installing the repaired DIGITAL VIDEO Assy in the original unit

It is not necessary to change the keyword.

After the repaired DIGITAL VIDEO Assy is mounted in the original unit, the unit can operate with its latest adjustment values. After replacement, turn on the power. Then, the backup data in the EEPROM of the RGB Assy will automatically be copied to the EEPROM of the DIGITAL VIDEO Assy.

5. When replacing both the DIGITAL VIDEO Assy and the RGB Assy simultaneously

Automatic backup function does not work properly. Readjustment is necessary.

Others

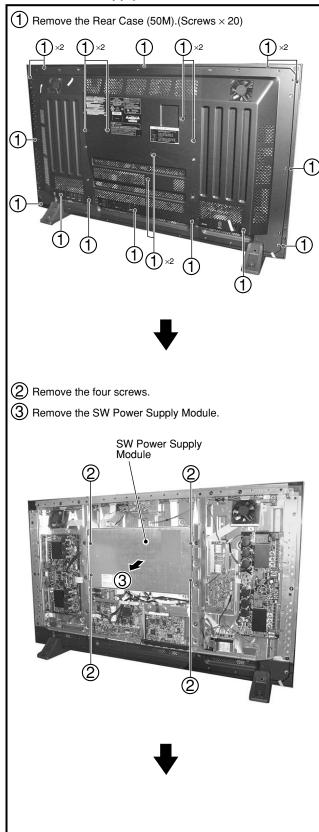
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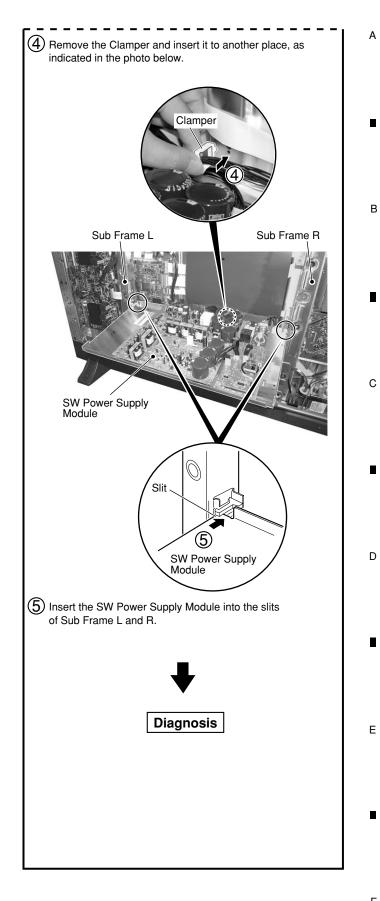
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- 1. As for the COLOR and TINT items, even though they are adjustment data for the unit, as they are stored in Area C, they are not automatically backed up. For these two items, the following applies:
 - ① When only the DIGITAL VIDEO Assy is replaced Readjustment is not required, as data are stored in the RGB Assy.
 - ② When the RGB Assy is replaced
 - After repair, readjustment is required.
- 2. Except for data for the COLOR and TINT items, data in Area C in the EEPROM of the RGB Assy are assembly-adjustment data. Readjustment is not required when the RGB Assy is replaced with one for service.

SW Power Supply Module





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DIGITAL VIDEO Assy

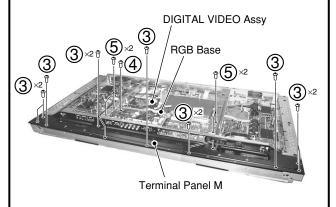
 \bigcirc Remove the Rear Case (50M). (Screws \times 20)

Remove the SW Power Supply Module. (Connector, Screws × 4)

 \bigcirc Remove the Terminal Panel M. (Screws \times 11)

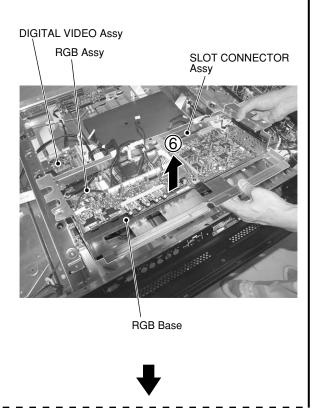
(4) Remove the screw of the earth block.

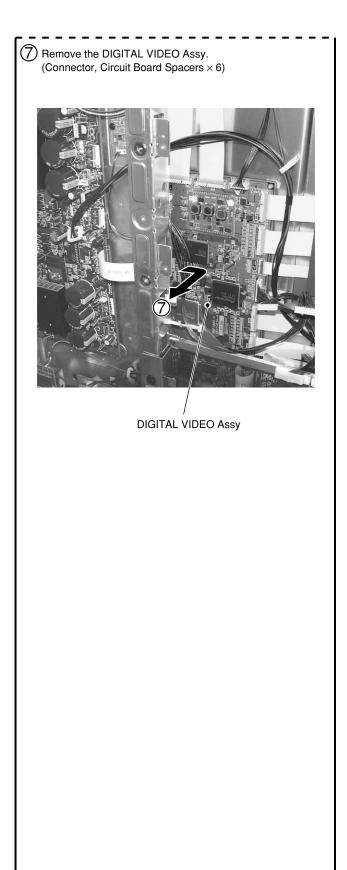
(Screws × 4)





Remove the connectors and binders, and remove the RGB Base with PCB Assys.





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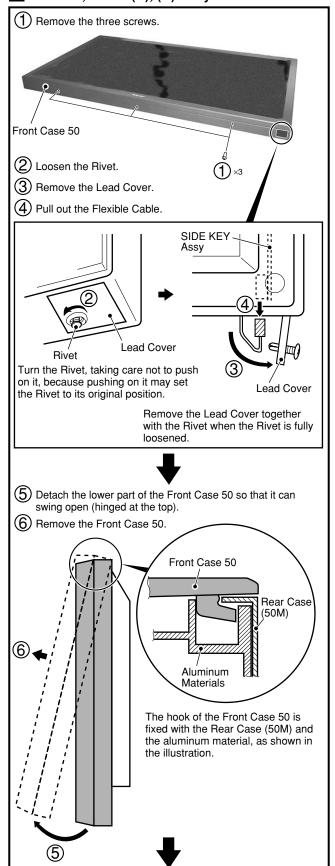
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(7) Remove the Rear Case (50M). (Screws \times 20) (8) Remove the Y DRIVE Assy. (Connector, Screws \times 8) Y DRIVE Assy (8) ×2 (9) Reverse the SCAN (A) and SCAN (B) Assemblies. (10) Exchange the ROM if necessary. SCAN (A) Assy ROM ×6 0

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SCAN (B) Assy

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X DRIVE Assy

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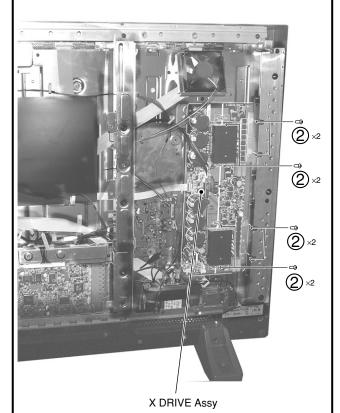
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Remove the Rear Case (50M). (Screws × 20)

2 Remove the X DRIVE Assy. (Connector, Screws × 8)

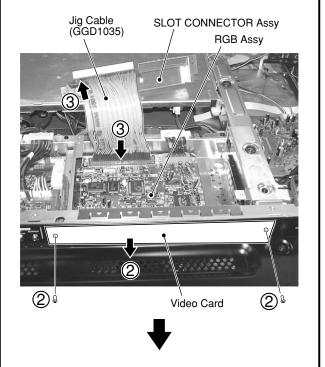


Diagnosis of the Video Card (PDA-5002)

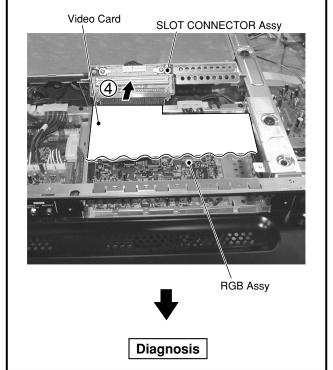
 \bigcirc Remove the Rear Case (50M). (Screws \times 20)

2 Remove the Video Card. (Screws × 2)

(3) Remove the SLOT CONNECTOR Assy from the RGB Assy and reconnect it with the Jig Cable (GGD1035).



Reconnect the Video Card.
(Do not insert it into the slot.)



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• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

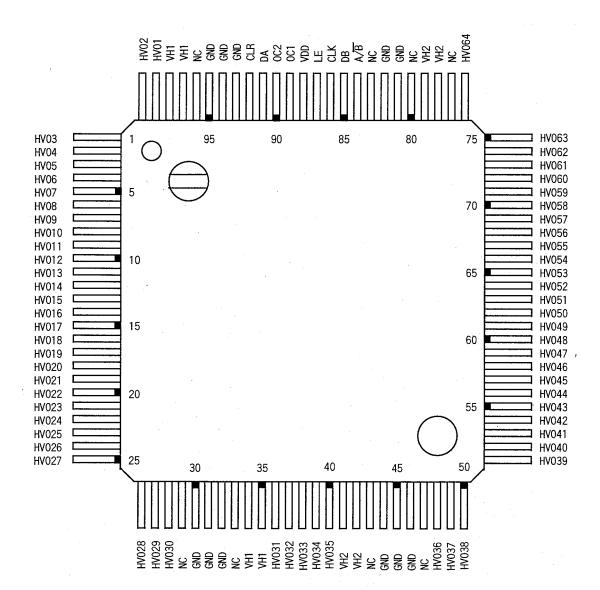
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• List of IC

SN755864APZP, HD64F2328VF, PE1012A, PE1013B, M30624FGAFP, PD6358A, PST9246N, FS781BZB, STK795-470, BA5417, ML6426CS-1, CXA3516R

■ SN755864APZP (SCAN A ASSY : IC6201 - IC6206, SCAN B ASSY : IC6001 - IC6006) Scan IC

Pin Assignment (Top view)



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Pin Function

Name	Pin No.	I/O	Num.	Function
CLK	86	I	1	Shift clock (start edge partial response)
DA	91	I/O	1	The serial data input of shifting register
DB	85	I/O	1	The serial data output of shifting register
LE	40	I	1	It output data done a latch of by "H" level
CLR	92	I	1	It do data of shift register with "H" by "L" level
A/B	84	I	1	A shift directional control signal of shift register
OC1	89	I	1	An output control terminal of HVO
OC2	90	I	1	An output control terminal of HVO
HVO	99, 100, 1-28 36-40, 48-76	0	64	High voltage drive output (HVO1 - HVO64)
VDD	88	-	1	Logic power supply
GND	30-32, 44-46 81-82, 93, 94-95	-	11	Standard potential. This is common to HVO1 - HVO64.
VH1	34, 35, 97, 98	_	4	The high potential circuit power supply which is common to HVO1 - HVO32
VH2	41, 42, 78, 79	_	4	The high potential circuit power supply which is common to HVO33 - HVO64
NC	29, 33, 43, 47 77, 80, 83, 96	-	8	It is the insulation electrically

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■ HD64F2328VF (DIGITAL VIDEO ASSY : IC1101) Scan IC ● Pin Function (1/3)

No.	Pin Name	Function
1	CS_23	PE5064 (IC1703) control output
2	NC	NC Terminal
3	VSS	GND
4	VSS	GND
5	VCC	3.3V power supply
6	UA0	Address bus
7	UA1	Address bus
8	UA2	Address bus
9	UA3	Address bus
10	VSS	GND
11	UA4	Address bus
12	UA5	Address bus
13	UA6	Address bus
14	UA7	Address bus
15	UA8	Address bus
16	UA9	Address bus
17	UA10	Address bus
18	UA11	Address bus
19	VSS	GND
20	UA12	Address bus
21	UA13	Address bus
22	UA14	Address bus
23	UA15	Address bus
24	UA16	Address bus
25	UA17	Address bus
26	UA18	Address bus
27	UA19	Address bus
28	VSS	GND
29	UA20	Address bus
30	PA5	NC terminal
31	PA6	NC terminal
32	PA7	NC terminal
33	CE_PN	Enables / for panel microcomputer
34	CE_PN	Enables / for panel microcomputer
35	VSS	GND
36	VSS	GND
37	APLP	The APL value acquisition trigger signal input
38	VD_31	The V signal input from IC1401 (PD6358)
39	VCC	3.3V power supply
40	UD0	Data bus
41	UD1	Data bus Data bus
42	UD2	Data bus Data bus
43	UD3	Data bus Data bus
44	VSS	GND
45	UD4	Data bus
46	UD5	Data bus Data bus
47	UD6	Data bus Data bus
48	UD7	Data bus Data bus
48	UD8	
		Data bus
50	UD9	Data bus

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● Pin Function (2/3)

No.	Pin Name	Function
51	UD10	Data bus
52	UD11	Data bus
53	VSS	GND
54	UD12	Data bus
55	UD13	Data bus
56	UD14	Data bus
57	UD15	Data bus
58	VCC	3.3V power supply
59	D_TXD	Communication with IC1207 (module microcomputer)
60	EXT_TXD	Communication with the outside (program notes)
61	D_RXD	Communication with IC1207 (module microcomputer)
62	EXT_RXD	Communication with the outside (program notes)
63	D_CLK	Communication with IC1207 (module microcomputer)
64	P60	NC terminal
65	VSS	GND
66	CS_FLASH	A flash memory control terminal
67	VSS	GND
68	VSS	GND
69	P61	NC terminal
70	UDREQ	IC1703 (PE5064) control terminal
71	P63	NC terminal
72	WE_FLASH	A flash memory note control signal (unused)
73	BUSY	The command receipt of a message lye Norwich output
74	REQ_PU	A communication demand to a module microcomputer
75	SEL23B	IC1703 (PE5064) control terminal
76	CLRB	IC1703 (PE5064) control terminal
77	FR_SEL	The free run select signal output
78	RST31B	The reset output to IC1301, IC1401 (PD6358)
79	RST23B	The reset output to IC1703 (PE5064)
80	FWE	Microcomputer program note control signal
81	RESET	Reset input
82	NMI	The at the rate of tang input (unused)
83	STBY	The hardware standby input (unused)
84	VCC	3.3V power supply
85	XTAL	A clock oscillation child connection terminal
86	EXTAL	A clock oscillation child connection terminal
87	VSS	GND
88	PF7	NC terminal
89	VCC	3.3V power supply
90	PF6	NC terminal
91	RDB	A read control terminal from an outside slave device
92	HWRB	A wright control terminal to an outside slave device
93	PF3	NC terminal
94	PF2	NC terminal
95	PF1	NC terminal
96	PF0	NC terminal
97	P50	NC terminal
98	P51	NC terminal
99	VSS	GND
100	VSS	GND
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● Pin Function (3/3)

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No.	Pin Name	Function
101	P52	NC terminal
102	P53	NC terminal
103	AVCC	3.3V power supply
104	VREF	A/D, D/A reference voltage input (unused)
105	STOPB	The drive control input from IC1703 (PE5064)
106	P41	NC terminal
107	RYBY	The flash memory note ready input
108	ADR_K_EMG_L1	The emergency input from panel bottom address resonance block
109	ADR_K_EMG_U1	The emergency input from panel upper address resonance block
110	ADR_K_EMG_L2	The emergency input from panel bottom address resonance block (unused)
111	ADR_K_EMG_U2	The emergency input from panel upper address resonance block (unused)
112	P47	NC terminal
113	AVSS	GND
114	VSS	GND
115	MUTE_ADR	The panel mute signal input
116	MUTE_SUS	The X and Y drive mute signal output (unused)
117	P15	NC terminal
118	HD	The HD signal input from outside Assy (RGB Assy etc.)
119	P13	NC terminal
120	P12	NC terminal
121	PC_VIDEO	The PC/Video identification output
122	VD	The HD signal input from outside Assy (RGB Assy etc.)
123	MD0	The microcomputer mode of operation select signal input
124	MD1	The microcomputer mode of operation select signal input
125	MD2	The microcomputer mode of operation select signal input
126	PG0	NC terminal
127	CS_31Y	IC1301, IC1401 (PD6358) control signal
128	CS_31X	IC1301, IC1401 (PD6358) control signal

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■ PE1012A (X DRIVEASSY : IC3003)

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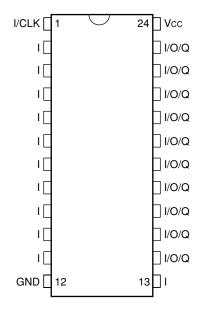
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Drive Protect PLD

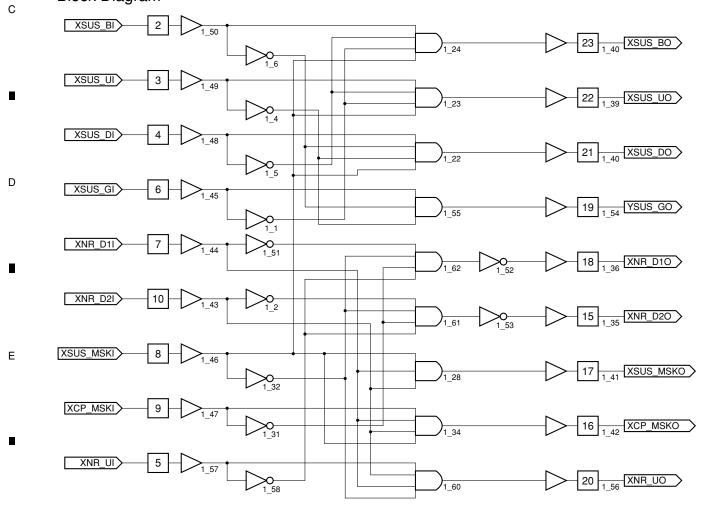
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Pin Assignment (Top View)



Block Diagram



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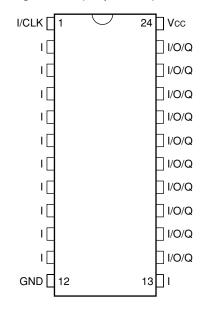
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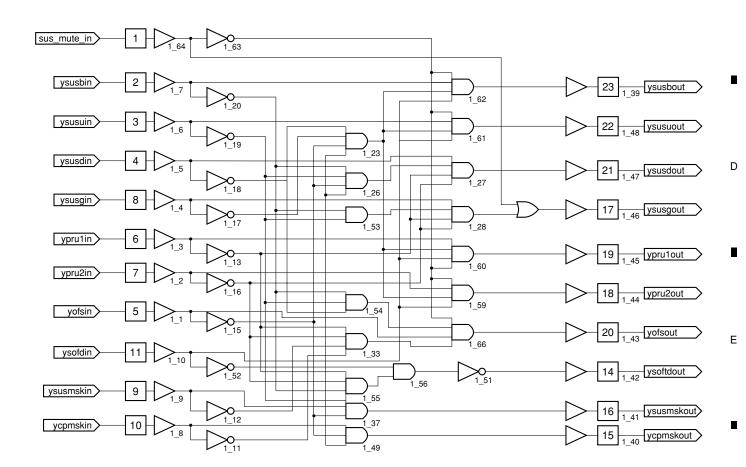
Pin Assignment (Top View)

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Block Diagram

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■ M30624FGAFP (DIGITAL VIDEO ASSY: IC1207) Module Microcomputer Pin Function (1/2)

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No.	Pin Name	Function
1	TXD	Serial 3 line data output for communication with a panel microcomputer
2	CLK	Serial 3 line clock for communication with a panel microcomputer
3	NC	NC terminal
4	NC	NC terminal
5	NC	NC terminal
6	NC	NC terminal
7	NC	NC terminal
8	BYTE	The external data bus width reshuffling input (I am unused and connect GND)
9	CNVSS	A power supply for program note (a note, 5V, usually, pull-down
10	XCIN	NC terminal
11	XCOUT	NC terminal
12	RESET	A reset input terminal
13	XOUT	Clock output terminal
14	VSS	GND
15	XIN	Clock input terminal
16	VCC	5V standby power
17	NMI	Because a NMI interruption terminal is unused, It handle pull up.
18	REM	The SR signal input
19	REQ_PU	A communication demand from a panel microcomputer (the pulse meter acquisition
20	/SW_TRG	Main switch OFF / ON search
21	NC	NC terminal
22	NC	NC terminal
23	NC	NC terminal
24	AC_OFF	AC power OFF search and power supply ASSY differentiation.
25	PD_TRIGGER	Power down search
26	NC NC	NC terminal
27	NC	NC terminal
28	NC	NC terminal
29	SCL	EEPROM, IIC communication with power supply ASSY
30	SDA	EEPROM, IIC communication with power supply ASSY
31	TXD1	Communication with the outside (a program note)
32	RXD1	Communication with the outside (a program note)
33	CLK1	Communication with the outside (a program note)
34	BUSY1	Communication with the outside (a program note)
35	TXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
36	RXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
37	NC	NC terminal
38	REQ_MD/A_MUTE	232C communication demand (a request to a main microcomputer) / audio system mute
39	NC	NC terminal
40	NC	NC terminal
41	EPM	The EPM input for program note (L fixation)
42	NC	NC terminal
43	PU_CE	Enables/ for panel microcomputer
44	NC	NC terminal
45	MOD_SW/A_NG	The model of machines distinction input / audio system NG input
46	CE	The CE input for program note (H fixation)
47	DITHER/SW_STC	Power supply search of a dither setting / media receiver for module
48	NC	NC terminal
49	/SW_STP	Power supply search of a panel
50	NC	NC terminal

● Pin Function (2/2)

No.	Pin Name	Function	
51	NC	NC terminal	
52	RELAY	The output for power supply ON / OFF change	
53	POWER/MSTATE	Input / SII861 master information for power supply ON / OFF change	
54	NC	NC terminal	
55	WE_PN	Buffer state control for panel microcomputer note	
56	MD0	The panel microcomputer mode of operation change output	
57	MD2	The panel microcomputer mode of operation change output	
58	FWE	The panel microcomputer program note control signal output	
59	RST_PU	The panel microcomputer reset output	
60	PN_MUTE	The panel mute input	
61	NC	NC terminal	
62	VCC	5V standby power	
63	NC	NC terminal	
64	VSS	GND	
65	NC	NC terminal	
66	NC	NC terminal	
67	/A_SCL	IIC clock for audio system	
68	/A_SDA	IIC data for audio system	
69	APD_MUTE	A mute signal of address series	
70	ADR_K_PD	The address oscillatory system PD input	
71	ADR PD	The address series PD input	
72	DCC_PD	The power supply system PD input	
73	NC	NC terminal	
74	NC	NC terminal	
75	RST2	Panel microcomputer reset search	
76	NC NC	NC terminal	
77	/DDC_SCL	IIC communication with a media receiver	
78	/DDC_SDA	IIC communication with a media receiver	
79	NC	NC terminal	
80	NC	NC terminal	
81	DEW_DET	The dew condensation sensor input	
82	NC	NC terminal	
83	NC NC	NC terminal	
84	NC NC	NC terminal	
85	NC NC	NC terminal	
86	LED_G	Green LED lighting (LED on interface ASSY in a panel module)	
87			
88	LED_R NC	Red LED lighting (LED on interface ASSY in a panel module)	
89	BUSY	NC terminal Communication permission / inhibiting signal from a panel microcomputer	
90	NC		
90	NC NC	NC terminal NC terminal	
92	/F_KEY1	The front KEY input	
93	MAX_PLS2/F_KEY2	The terminal / front KEY input for brightness setting mode of operation change	
94	TEMP1	The A/D input for temperature sensor	
95	MAX_PLS? /CCKM	Terminal / connection search for brightness setting mode of operation change	
96	AVSS	GND for AD conversion	
97	PM_ST	The A/D input for model of machines distinction	
98	VREF	Reference voltage for AD conversion	
99	AVCC	5V standby power for AD conversion	
100	RXD	Serial 3 line data entry for communication with a panel microcomputer	

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■ PD6358A (DIGITAL VIDEO ASSY : IC1301, IC1401) Picture Improved IC ● Pin Function (1/7)

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No.	Pin Name	Function	
1	VSS	GND	
2	TESTO6	Test output terminal (unused)	
3	OSDCLK	The CLK input for OSD	
4	TTST	Test input terminal (unused)	
5	VDDI	2.5V power supply	
6	OVDDE-01	3.3V power supply	
7	AGO0	Address data output (G signal)	
8	VDDI	2.5V power supply	
9	AGO2	Address data output (G signal)	
10	AGO3	Address data output (G signal)	
11	AGO4	Address data output (G signal)	
12	VDDI	2.5V power supply	
13	ARO6	Address data output (R signal)	
14	AGO7	Address data output (G signal)	
15	VDDI	2.5V power supply	
16	ARO9	Address data output (R signal)	
17	ABO9	Address data output (B signal)	
18	VDDI	2.5V power supply	
19	ADRCLKO2	The address CLK output (for panel upper part)	
20	ARO12	Address data output (R signal)	
21	ARO13	Address data output (R signal)	
22	AGO14	Address data output (11 signal) Address data output (G signal)	
23	AGO14 AGO15	Address data output (G signal) Address data output (G signal)	
24			
25	ARO16	Address data output (R signal)	
	ARO17	Address data output (R signal)	
26	VSS	GND	
27	ABO17	Address data output (B signal)	
28	AGO17	Address data output (G signal)	
29	AGO18	Address data output (G signal)	
30	ABO19	Address data output (B signal)	
31	UDAT15	Microcomputer data bus	
32	UDAT12	Microcomputer data bus	
33	UDAT9	Microcomputer data bus	
34	UDAT5	Microcomputer data bus	
35	OVDDE-06	3.3V power supply	
36	APLP	APL value output trigger signal	
37	OVDDE-08	3.3V power supply	
38	CS5BI	The chip select input	
39	CS4BI	The chip select input	
40	UADRI13	Microcomputer address bus	
41	UADRI9	Microcomputer address bus	
42	UADRI6	Microcomputer address bus	
43	UADRI2	Microcomputer address bus	
44	UADRI1	Microcomputer address bus	
45	TESTI2	Test input terminal (unused)	
46	BIT0	The subfield No output (the 0 bit)	
47	OVDDE-11	3.3V power supply	
48	TESTO4	Test output terminal (unused)	
49	ARO39	Address data output (G signal)	
50	AGO38	Address data output (G signal)	

● Pin Function (2/7)

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No.	Pin Name	Function	
51	VSS	GND	
52	ABO37	Address data output (B signal)	
53	ABO36	Address data output (B signal)	
54	ARO36	Address data output (R signal)	
55	ABO34	Address data output (B signal)	
56	ADRCLKO4	The address CLK output (for panel bottom part)	
57	AGO33	Address data output (G signal)	
58	AGO32	Address data output (G signal)	
59	AGO31	Address data output (G signal)	
60	AGO30	Address data output (G signal)	
61	AGO29	Address data output (G signal)	
62	VDDI	2.5V power supply	
63	ABO27	Address data output (B signal)	
64	AGO26	Address data output (G signal)	
65	VDDI	2.5V power supply	
66	AGO24	Address data output (G signal)	
67	VDDI	2.5V power supply	
68	ABO22	Address data output (B signal)	
69	VDDI	2.5V power supply	
70	ARO21	Address data output (R signal)	
71	ARO20	Address data output (R signal)	
72	VDDI	2.5V power supply	
73	OVDDE-14	3.3V power supply	
74	TDI	The JTAG input	
75	RBI9	The R picture B aspect signal input (the ninth bit)	
76	VSS	GND	
77	RBI8	The R picture B aspect signal input (the eighth bit)	
78	RBI6	The R picture B aspect signal input (the sixth bit)	
79	RBI4	The R picture B aspect signal input (the fourth bit)	
80	OVSS-09	GND	
81	RSTB	Reset input	
82	GBI8	The G picture B aspect signal input (the eighth bit)	
83	OVDDE-18	3.3V power supply	
84	GBI5	The G picture B aspect signal input (the fifth bit)	
	GBI2	The G picture B aspect signal input (the second bit)	
85	DEI	DE signal input	
87	BBI6	The B picture B aspect signal input (the sixth bit)	
88	BBI3	The B picture B aspect signal input (the sixth bit) The B picture B aspect signal input (the third bit)	
89	VDI	VD signal input	
90	HDI	HD signal input	
90	RAI6	The R picture A aspect signal input (the sixth bit)	
92	RAI2	The R picture A aspect signal input (the second bit) The R picture A aspect signal input (the second bit)	
93	TESTI0	Test input terminal (unused)	
93	OVSS-11	GND	
95	GAI7	The G picture A aspect signal input (the seventh bit	
95			
	GAI3	The G picture A sepect signal input (the third bit)	
97	GAI0	The G picture A aspect signal input (the 0 bit)	
98	BAI6	The B picture A capacit signal input (the sixth bit)	
99	BAI3	The B picture A sepect signal input (the third bit)	
100	BAI0	The B picture A aspect signal input (the 0 bit)	

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● Pin Function (3/7)

No.	Pin Name	Function	
101	TESTO7	Test output terminal (unused)	
102	TESTO5	Test output terminal (unused)	
103	OSDH	OSDH input	
104	BLK	OSDBLK input	
105	OSDB	OSDB signal input	
106	NC	NC terminal	
107	ARO1	Address data output (R signal)	
108	ARO2	Address data output (R signal)	
109	ARO3	Address data output (R signal)	
110	ARO4	Address data output (R signal)	
111	ARO5	Address data output (R signal)	
112	ABO5	Address data output (B signal)	
113	ARO7	Address data output (R signal)	
114	ARO8	Address data output (R signal)	
115	ABO8	Address data output (B signal)	
116	AGO9	Address data output (G signal)	
117	AGO10	Address data output (G signal)	
118	ADRCLKO1	Address CLK output (for panel upper part)	
119	ABO11	Address data output (B signal)	
120	ABO12	Address data output (B signal)	
121	ARO14	Address data output (R signal)	
122	ARO15	Address data output (R signal)	
123	ABO15	Address data output (B signal)	
124	ABO16	Address data output (B signal)	
125	AGO16	Address data output (G signal)	
126	ARO18	Address data output (R signal)	
127	AGO19	Address data output (G signal)	
128	OVDDE-05	3.3V power supply	
129	UDAT13	Microcomputer data bus	
130	UDAT10	Microcomputer data bus	
131	UDAT6	Microcomputer data bus	
132	UDAT3	Microcomputer data bus	
133	UDAT0	Microcomputer data bus	
134	OVDDE-07	3.3V power supply	
135	LR	The panel LR select input	
136	RDBI	Microcomputer read control terminal	
137	CLKSEL	CLK select input	
138	UADRI10	Microcomputer address bus	
139	UADRI7	Microcomputer address bus	
140	UADRI3	Microcomputer address bus	
141	CYCLEB	Address data output control signal	
142	BIT2	Subfield No. output (the second bit)	
143	SFSTB	Address data output control signal	
144	OVSS-05	GND	
145	TESTO2	Test output terminal (unused)	
146	ABO38	Address data output (B signal)	
147	ARO38	Address data output (R signal)	
148	ARO37	Address data output (R signal)	
149	AGO36	Address data output (G signal)	
150	ARO35	Address data output (R signal)	
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● Pin Function (4/7)

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No.	Pin Name	Function	
151	ADRCLKO3	The address CLK output (for panel bottom part)	
152	ABO33	Address data output (B signal)	
153	ABO32	Address data output (B signal)	
154	VDDI	2.5V power supply	
155	ABO30	Address data output (B signal)	
156	VDDI	2.5V power supply	
157	ABO28	Address data output (B signal)	
158	ARO28	Address data output (R signal)	
159	ABO26	Address data output (B signal)	
160	ABO25	Address data output (B signal)	
161	ABO24	Address data output (B signal)	
162	ARO24	Address data output (R signal)	
163	ARO23	Address data output (R signal)	
164	ARO22	Address data output (R signal)	
165	AGO21	Address data output (G signal)	
166	AGO20	Address data output (G signal)	
167	TDO	JTAG signal	
168	TMS	JTAG signal	
169	RBI7	The R picture B aspect signal input (the seventh bit)	
170	TCK	JTAG signal	
171	RBI5	The R picture B aspect signal input (the fifth bit)	
172	RBI3	The R picture B aspect signal input (the third bit)	
173	RBI1	The R picture B aspect signal input (the first bit)	
174	OVDDE-16	3.3V power supply	
175	GBI7	The G picture B aspect signal input (the seventh bit)	
176	OVSS-10	GND	
177	GBI4	The G picture B aspect signal input (the fourth bit)	
178	GBI1	The G picture B aspect signal input (the first bit)	
179	BBI9	The B picture B aspect signal input (the ninth bit)	
180	BBI5	The B picture B aspect signal input (the fifth bit)	
181	BBI2	The B picture B aspect signal input (the second bit)	
182	RAI9	The R picture A aspect signal input (the ninth bit)	
183	CLK3	CLK input terminal (unused)	
184	RAI5	The R picture A aspect signal input (the fifth bit)	
185	RAI1	The R picture A aspect signal input (the first bit)	
186	TESTI1	Test input terminal (unused)	
187	GAI9	The G picture A aspect signal input (the ninth bit)	
188	GAI6	The G picture A aspect signal input (the sixth bit)	
189	GAI2	The G picture A aspect signal input (the second bit)	
190	BAI9	The B picture A aspect signal input (the ninth bit)	
191	BAI5	The B picture A aspect signal input (the fifth bit)	
192	BAI2	The B picture A aspect signal input (the second bit)	
193	BAI1	The B picture A aspect signal input (the first bit)	
194	OVSS-01	GND	
195	OVSS-02	GND	
196	OSDG	OSDG signal input	
197	ARO0	Address data output (R signal)	
198	ABO0	Address data output (11 signal) Address data output (B signal)	
199	ABO1	Address data output (B signal) Address data output (B signal)	
200	ABO1	Address data output (B signal) Address data output (B signal)	

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● Pin Function (5/7)

No. Pin Name		Function		
201	ABO3	Address data output (B signal)		
202	ABO4	Address data output (B signal)		
203	OVDDE-02	3.3V power supply		
204	ABO6	Address data output (B signal)		
205	ABO7	Address data output (B signal)		
206	VDDI	2.5V power supply		
207	OVDDE-03	3.3V power supply		
208	ARO10	Address data output (R signal)		
209	ABO10	Address data output (B signal)		
210	AGO11	Address data output (G signal)		
211	AGO12	Address data output (G signal)		
212	ABO13	Address data output (B signal)		
213	ABO14	Address data output (B signal)		
214	OVDDE-04	3.3V power supply		
215	OVSS-03	GND		
216	ARO19	Address data output (R signal)		
217	TESTO1	Test output terminal (unused)		
218	UDAT14	Microcomputer data bus		
219	UDAT11	Microcomputer data bus		
220	UDAT7	Microcomputer data bus		
221	UDAT4	Microcomputer data bus		
222	UDAT1	Microcomputer data bus		
223	VDRD	V signal output		
224	HWRBI	Microcomputer wright control terminal		
225	UADRI14	Microcomputer address bus		
226	OVDDE-09	3.3V power supply		
227	UADRI11	Microcomputer address bus		
228	UADRI8	Microcomputer address bus		
229	UADRI4	Microcomputer address bus		
230	BIT3	Subfield No. output (the third bit)		
231	BIT1	Subfield No. output (the first bit)		
232	OVDDE-10	3.3V power supply		
233	TESTO3	Test output terminal (unused)		
234	ABO39	Address data output (B signal)		
235	AGO37	Address data output (G signal)		
236	OVSS-06	GND		
237	AGO35	Address data output (G signal)		
238	ADRCLKO5	Address CLK output (for panel bottom part)		
239	ARO34	Address data output (R signal)		
240	ARO33	Address data output (R signal)		
241	ABO31	Address data output (B signal)		
242	ARO31	Address data output (R signal)		
243	ABO29	Address data output (B signal)		
244	ARO29	Address data output (R signal)		
245	OVDDE-12	3.3V power supply		
246	ARO27	Address data output (R signal)		
247	ARO26	Address data output (R signal)		
248	ARO25	Address data output (R signal)		
249	OVDDE-13	3.3V power supply		
250	AGO23	Address data output (G signal)		
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● Pin Function (6/7)

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No.	Pin Name	Function		
251	AGO22	Address data output (G signal)		
252	VDDI	2.5V power supply		
253	ABO20	Address data output (B signal)		
254	OVSS-07	GND		
255	OVDDE-15	3.3V power supply		
256	OVSS-08	GND		
257	RBI2	The R picture B aspect signal input (the second bit)		
258	TRST	JTAG signal		
259	GBI9	The G picture B aspect signal input (the ninth bit)		
260	GBI6	The G picture B aspect signal input (the sixth bit)		
261	OVDDE-17	3.3V power supply		
262	GBI3	The G picture B aspect signal input (the third bit)		
263	GBI0	The G picture B aspect signal input (the 0 bit)		
264	BBI8	The B picture B aspect signal input (the eighth bit)		
265	BBI4	The B picture B aspect signal input (the fourth bit)		
266	BBI1	The B picture B aspect signal input (the first bit)		
267	RAI8	The R picture A aspect signal input (the eighth bit)		
268	OVDDE-19	3.3V power supply		
269	RAI4	The R picture A aspect signal input (the fourth bit)		
270	RAI0	The R picture A aspect signal input (the 0 bit)		
271	FREERUN	The freerun control input		
272	GAI8	The G picture A aspect signal input (the eighth bit)		
273	GAI5	The G picture A aspect signal input (the fifth bit)		
274	GAI1	The G picture A aspect signal input (the first bit)		
275	BAI8	The B picture A aspect signal input (the list bit) The B picture A aspect signal input (the eighth bit)		
276	BAI4	The B picture A aspect signal input (the eighth bit)		
277	VDDE	3.3V power supply		
278	OSDV	OSDV input		
279	VSS	GND		
280	OSDR	OSDR signal input		
281	VDDE	3.3V power supply		
282	AGO1	Address data output (G signal)		
283	VSS	GND		
284	VDDI	2.5V power supply		
285	VDDI	2.5V power supply 2.5V power supply		
286	AGO5	Address data output (G signal)		
287	AGO6	Address data output (G signal) Address data output (G signal)		
288	VDDI	2.5V power supply		
289	AGO8	Address data output (G signal)		
290	VSS	Address data output (G signal) GND		
290	ADRCLKO0	The address CLK output (for panel upper part)		
292	VDDE ABO11	3.3V power supply		
293	ARO11	Address data output (R signal)		
294	VSS	GND		
295	AGO13	Address data output (G signal)		
296	VDDE	3.3V power supply		
297	ABO18		Address data output (B signal)	
298	VSS	GND		
299	TESTO0	Test output terminal (unused)		
300	VDDI	2.5V power supply		

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● Pin Function (7/7)
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No.	Pin Name	Function	
301	UDAT8	Microcomputer data bus	
302	VSS	GND	
303	UDAT2	Microcomputer data bus	
304	VDDI	2.5V power supply	
305	OVSS-04	GND	
306	UADRI15	Microcomputer address bus	
307	VDDI	2.5V power supply	
308	UADRI12	Microcomputer address bus	
309	VSS	GND	
310	UADRI5	Microcomputer address bus	
311	VDDI	2.5V power supply	
312	NC	NC terminal	
313	VSS	GND	
314	AGO39	Address data output (G signal)	
315	VDDE	3.3V power supply	
316	ABO35	Address data output (B signal)	
317	VSS	GND	
318	AGO34	Address data output (G signal)	
319	VDDE	3.3V power supply	
320	ARO32	Address data output (R signal)	
321	VSS	GND	
322	ARO30	Address data output (R signal)	
323	VDDI	2.5V power supply	
324	AGO28	Address data output (G signal)	
325	AGO27	Address data output (G signal)	
326	NC	NC terminal	
327	AGO25	Address data output (G signal)	
328	VSS	GND	
329	ABO23	Address data output (B signal)	
330	VDDE	3.3V power supply	
331	ABO21	Address data output (B signal)	
332	VSS	GND	
333	VPD	GND	
334	VDDE	3.3V power supply	
335	RBI0	The R picture B aspect signal input (the 0 bit)	
336	VSS	GND	
337	ACLK	CLK input (25MHz)	
338	VDDI	2.5V power supply	
339	CLK4	CLK input (50MHz)	
340	VSS	GND	
341	BBI7	The B picture B aspect signal input (the seventh bit)	
342	VDDI	2.5V power supply	
343	BBI0	The B picture B aspect signal input (the 0 bit)	
344	RAI7	The R picture A aspect signal input (the seventh bit)	
345	VDDI	2.5V power supply	
346	RAI3	The R picture A aspect signal input (the third bit)	
347	VSS	GND	
348	CLK2	The image system CLK input	
349	VDDI	2.5V power supply	
350	GAI4	The G picture A aspect signal input (the fourth bit)	
351	VSS	GND	
352	BAI7	The B picture A aspect signal input (the seventh bit)	
-			

■ PST9246N (DIGITAL VIDEO ASSY: IC1208) Reset IC

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Pin Assignment (Top View)

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VCC VOUT

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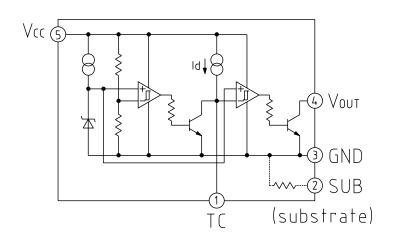
1 2 3

TC SUB GND

SOT-25
(TOP VIEW)

Block Diagram

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Pin Function

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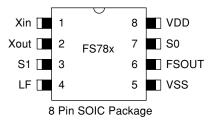
Pin No.	Pin name	Functions		
1	TC	TPLH control pin		
2	SUB	Substate pin		
3	GND	GND pin		
4	Vouт	Reset signal output pin		
5	Vcc	Vcc pin / voltage detect pin		

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■ FS781BZB (DIGITAL VIDEO ASSY: IC1802) Low EMI Clock IC

Pin Assignment (Top View)



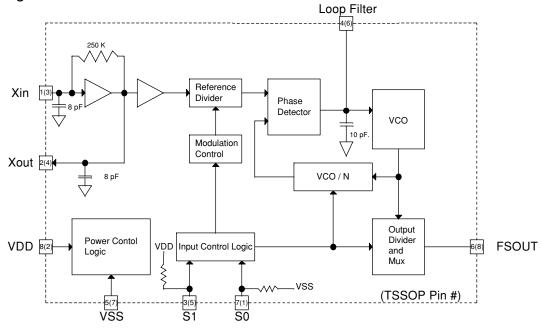
Block Diagram

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Pin Function

No.	Pin Name	I/O	Туре	Function	
1/2	Xin/Xout	I/O	Analog	Pins form an on-chip reference oscillator when connected to terminals of an external parallel resonant crystal. Xin may be connected to TTL/CMOS external clock source. If Xin connected to external clock other than crystal, leave Xout (pin2) unconnected.	
7/3	S0/S1	I CMOS/TTL Digital control inputs to select input frequency range and output frequency scaling. Refer to Tables 7 and 8 for selection. S0 has internal pulldown. S1 has internal pullup.			
4	LF	I	Analog	Analog Loop Filter. Single ended tri-state output of the phase detector. A two-pole passive loop filter connected to Loop Filter (LF).	
6	FSOUT	0	CMOS/TTL	Modulated Clock Frequency Output. The center frequency is the same as the input reference frequency for FS781. Input frequency is multipled by 2X and 4X for FS782 and FS784 respectively.	
8	VDD	Р	Power	Positive Power Supply	
5	VSS	Р	Power	Power Supply Ground	

PDP-503CMX

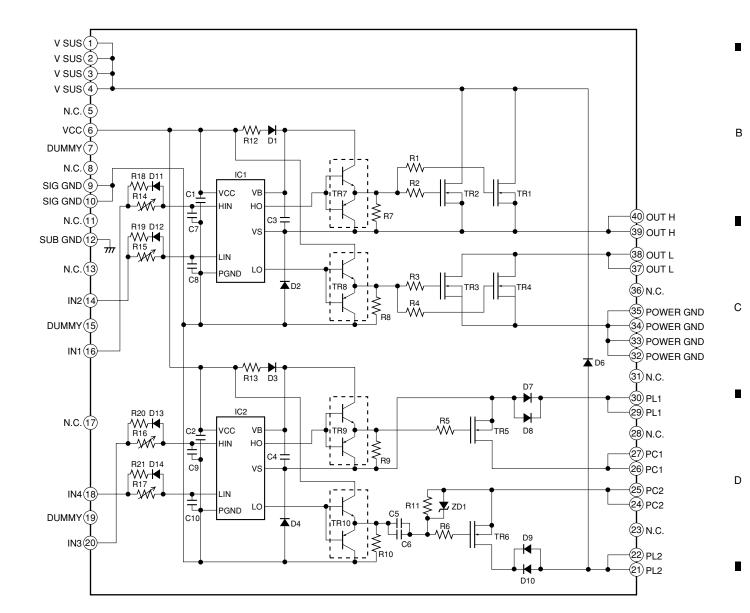
■ STK795-470 (X DRIVE ASSY : IC3200, IC3201) (Y DRIVE ASSY : IC2206, IC2214)

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PDP Pulse Module IC

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Block Diagram



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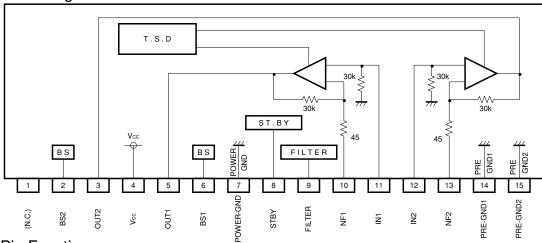
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■ BA5417 (MX AUDIO ASSY: IC8601) Power Amp

Block diagram



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Pin Function

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Terminal No.	Name of terminal	Description	
1	(NC)	_	
2	BS2	Boot-strap terminal 2	
3	OUT2	Output terminal 2	
4	VCC	Power source terminal	
5	OUT1	Output terminal 1	
6	BS1	Boot-strap terminal 1	
7	POWER-GND	Power GND	
8	STBY	Stand-by control terminal	
9	FILTER	Ripple filter terminal	
1 0	NF1	Feedback terminal 1	
1 1	IN1	Input terminal 1	
1 2	IN2	Input terminal 2	
1 3	NF2	Feedback terminal 2	
1 4	PRE-GND1	Small signal GND 1	
1 5	PRE-GND2	Small signal GND 2	

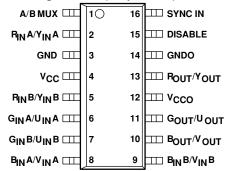
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Pin Assignment (Top view)

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TOP VIEW

 Block diagram - 12 - -Vcco VCC R_{IN} A/Y_{IN} A ROUT/YOUT 4th-ORDER MUX R_{IN}B/Y_{IN}B FILTER A 5 TRANSCONDUCTANCE ERROR AMP GIN A/UIN A **−** 0.5V GOUT/U OUT 4th-ORDER MUX G_{IN}/U_{IN}B FILTER B TRANSCONDUCTANCE ERROR AMP B_{IN} A/V_{IN} A **-** 0.5∨ BOUT/VOUT 4th-ORDER FILTER C B_{IN} B/V_{IN} B MUX TRANSCONDUCTANCE ERROR AMP **−** 0.5V A/B MUX 1 SYNCIN

DISABLE

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GNDO

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GND

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Pin Function

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PIN	NAME	FUNCTION	PIN	NAME	FUNCTION
1	A/B MUX	Logic input pin to select between Bank <a> and Bank video inputs. This pin is internally pulled high.	8	B _{IN} A/V _{IN} A	Unfiltered analog B- orV-channel input for Bank <a>. Sync must be provided at SYNC IN pin.
2	R _{IN} A/Y _{IN} A	Unfiltered analog R- orY-channel input for Bank <a>. Sync must be provided at SYNC IN pin.	9	B _{IN} B/V _{IN} B	Unfiltered analog B- orV-channel input for Bank . Sync must be provided at SYNC IN pin.
3	GND	Analog ground	10	В оит	Analog B or V-channel output
4	V_{CC}	Analog 5V supply	11	G оит	Analog G or U-channel output
5	$R_{IN}B/Y_{IN}B$	Unfiltered analog R- orY-channel input for Bank . Sync must be provided at SYNC IN pin.	12	V cco	5V power supply for output buffers
			13	R оит	Analog R orY-channel output
6	G _{IN} A/U _{IN} A		14	GNDO	Analog ground
		input for Bank <a>. Sync must be provided at SYNC IN pin.	15	DISABLE	Disable/Enable pin. Turns the chip off when logic high. Internally pulled low.
7	G _{IN} B/U _{IN} B	Unfiltered analog G- or U-channel input for Bank . Sync must be provided at SYNC IN pin.	16	SYNCIN	Input for an external H-sync logic signal for filter channels. CMOS level input. Active High.

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CXA3516R (RGB ASSY: IC4603)
AD + PLL IC
• Pin Assignment (Top view)

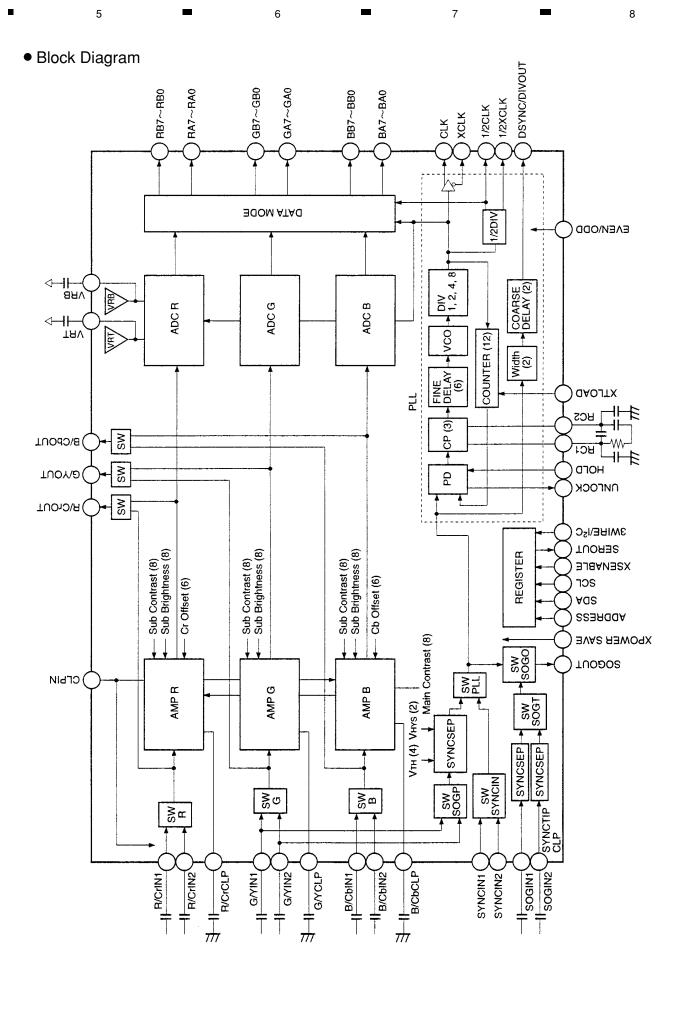
DSYNC/DIVOU DGNDPLLTTL DVCCPLLTTL DVccADTTL DGNDADTTL DVccAD3 **AGNDAD3** 1/2XCLK DVccAD SOGOUT DPGND XCLK **GB**0 GA7 GA6 GA5 **989** GB5 GB4 GB3 GB2 갽 **GB7** GB1 72 GA4 71 GA3 XCLKIN (109) CLKIN (110) 70) GA2 **SYNCIN1 (111)** 69 GA1 SYNCIN2 (112) (68) GA0 CLPIN (113) DVccPLL (67) DGNDADTTL DGNDPLL 66) DGNDAD3 AVCCVCO (116) 65) DVccADTTL 64 BB7 63 BB6 62 BB5 61 BB4 AGNDVCO (117) 60) ввз (59) GNDAD3 58 BB2 57 BB1 AGNDIR 56) BB0 55 DGNDADTTL G/YIN2 (54) DVccADTTL AGNDAMPG (53) BA7 (52) BA6 (51) BA5 G/YCLP B/CbCLP (50) DGNDAD3 (49) BA4 48) BA3 B/CbIN1 (47) BA2 AVCCAMPB (134) (46) BA1 SOGIN2 (45) BA0 B/CbIN2 (136) 44) DGNDADTTL AGNDAMPB 43) DGNDAD3 **DPGND** 42 DVccADTTL R/CriN1 (41) RB7 **AVCCAMPR** 40) RB6 R/CrIN2 (141) 39 AB5 38 AB4 37 AB3 AGNDAMPR (142) G/YOUT (43) DACTESTOUT (144) DVccADTTL (DVccREG (SDA (SCL (AVCCAD3 (DGNDAD3 (DVccADTTL (DGNDADTTL (DPGND () 2 2 2 RAO (RA2 (RA3 (RA4 (RA5 (RA6 (XSENABLE (SEROUT (3WIRE/I2C (AVCCADREF (XPOWER SAVE DGNDADTTL **AGNDAD3** HA7 RB1 RB1 RB2

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• Pin Function (1/3)

			T	
Pin No.	Symbol	1/0	Typical signal	Description
1	B/CbOUT	0	1.83V	Amplifier output signal monitor
2	ADDRESS	ı		I ² C slave address setting
3	R/CrOUT	0	1.83V	Amplifier output signal monitor
4	NC	_		Not used
5	NC	_		Not used
6	XPOWER SAVE	1	TTL	Power save setting
7	DGNDREG		GND	Register GND
8	DVccREG	_	5V	Register power supply
9	SDA	ı		Control register data input
10	SCL	I		Control register CLK input
11	XSENABLE	I	TTL	Enable signal input for 3-wire control register
12	SEROUT	0	TTL	3-wire control register data readout
13	3WIRE/I ² C	t		Selection of input between I ² C bus and 3-wire bus
15	AVccADREF	-	5V	Reference power supply for A/D converter
16, 94	AVccAD3	-	3.3V	Analog power supply for A/D converter
17	VRT	0	2.9V	Top reference voltage output for A/D converter
18, 92	DVccAD3	_	3.3V	Digital power supply for A/D converter
19, 32, 42, 54, 65, 76, 90	DVccADTTL		5V	TTL output power supply for A/D converter
20, 33, 44, 55, 67, 77, 89	DGNDADTTL	_	GND	TTL output GND for A/D converter
21, 22, 24 to 28, 31	RA0 to RA7	0	TTL	Data output for R-channel port A side
23, 30, 43, 50, 59, 66, 79, 86	DGNDAD3		GND	Digital GND for A/D converter
29, 80	AGNDAD3	_	GND	Analog GND for A/D converter
34 to 41	RB0 to RB7	0	TTL	Data output for R-channel port B side
45 to 49, 51 to 53	BA0 to BA7	0	TTL	Data output for B-channel port A side
56 to 58, 60 to 64	BB0 to BB7	0	TTL	Data output for B-channel port B side
68 to 75	GA0 to GA7	0	TTL	Data output for G-channel port A side
78, 81 to 85, 87, 88	GB0 to GB7	0	TTL	Data output for G-channel port B side
91	DVccAD		.5V	Digital power supply for A/D converter
93	VRB	0	1.9V	Bottom reference voltage output for A/D converter
95	AGNDADREF	_	GND	Reference voltage GND for A/D converter

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PDP-503CMX 1 ■ 2 ■ 3 • Pin Function (2/3)

Pin No.	Symbol	1/0	Typical signal	Description
96	DVccPLLTTL		5V	TTL output power supply for PLL
97	DGNDPLLTTL	-	GND	TTL output GND for PLL
98	XCLK	0	TTL	Inverted CLK output
99	CLK	0	TTL	CLK output
100	1/2XCLK	0	TTL	Inverted 1/2CLK output
101	1/2CLK	0	TTL	1/2CLK output
103	DSYNC/ DIVOUT	0	TTL	DSYNC or DIVOUT signal output
104	UNLOCK	0	Open collector	Unlock signal output
105	SOGOUT	0	TTL	Output for SYNC ON GREEN
106	HOLD	1	TTL	Input for phase comparison disable signal
107	XTLOAD	I	TTL	Programmable counter reset setting
108	EVEN/ODD	ı	TTL	Inverted pulse input of ADC sampling CLK
109	XCLKIN	ı	PECL	Inverted CLK input for testing
110	CLKIN	1	PECL	CLK input for testing
111	SYNCIN1	ı	TTL	Sync input 1
112	SYNCIN2	ı	TTL	Sync input 2
113	CLPIN	I	TTL	Clamp pulse input
114	DVccPLL		5V	Digital power supply for PLL
115	DGNDPLL	_	GND	Digital GND for PLL
116	AVccVCO		5V	Analog power supply for PLL VCO
117	AGNDVCO	_	GND	Analog GND for PLL VCO
118	RC1		2.1V	External pin for PLL loop filter
119	RC2		2 to 4.5V	External pin for PLL loop filter
120	AVccIR		5V	Analog power supply for IREF
121	IREF	1	1.2V	Current setup
123	AGNDIR		GND	Analog GND for IREF
124	G/YIN1			G/Y signal input 1
125	AVccAMPG	_	5V	Power supply for G/Y amplifier block
126	G/YIN2	ı		G/Y signal input 2
127	AGNDAMPG	_	GND	GND for G/Y amplifier block
128	G/YCLP	_		Clamp capacitor for brightness
129	B/CbCLP	-	_	Clamp capacitor for brightness
130	R/CrCLP		-	Clamp capacitor for brightness
132	SOGIN1	ı	2.8V	SYNC ON GREEN signal input 1
133	B/CbIN1	1		B/Cb signal input 1

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• Pin Function (3/3)

Pin No.	Symbol	1/0	Typical signal	Description
134	AVccAMPB	_	5V	Power supply for B/Cb amplifier block
135	SOGIN2	1	2.8V	SYNC ON GREEN signal input 2
136	B/CbIN2	ı		B/Cb signal input 2
137	AGNDAMPB	_	GND	GND for B/Cb amplifier block
139	R/CrIN1	I	_	R/Cr signal input 1
140	AVccAMPR	_	5V	Power supply for R/Cr amplifier block
141	R/CrIN2	1		R/Cr signal input 2
142	AGNDAMPR	_	GND	GND for R/Cr amplifier block
143	G/YOUT	0	1.83V	Monitor pin for amplifier output signal
144	DAC TEST OUT	0	5V	DAC testing output for amplifier block control register
14, 102, 122, 131, 138	DPGND	_	GND	GND

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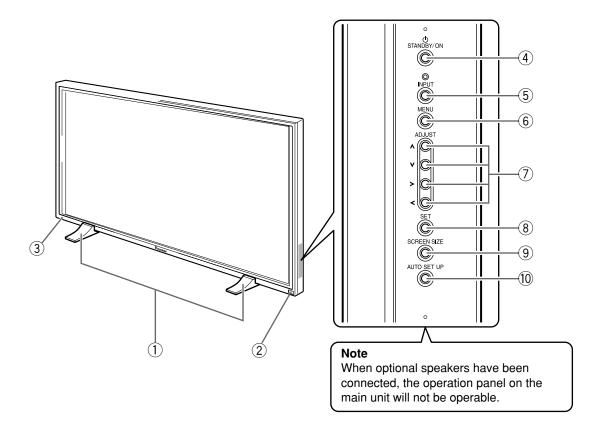
PDP-503CMX

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8. PANEL FACILITIES

PLASMA DISPLAY [PDP-503CMX, PDP-503MXE]

■ MAIN UNIT



Main unit

1 Display stand

2 Remote control sensor

Point the remote control toward the remote sensor to operate the unit.

③ STANDBY/ON indicator

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This indicator is red during standby mode, and turns to green when the unit is in the operation mode. Flashes green when Power-Management function is

The flashing pattern is also used to indicate error messages.

Operation panel on the main unit

4 STANDBY/ON button

Press to put the display in operation or standby mode.

5 INPUT button

Press to select input.

6 MENU button

Press to open and close the on-screen menu.

⑦ ADJUST (▲/▼/►/◄) buttons

Use to navigate menu screens and to adjust various settings on the unit.

Usage of cursor buttons within operations is clearly indicated in the on-screen display.

8 SET button

Press to adjust or enter various settings on the unit.

9 SCREEN SIZE button

Press to select the screen size.

10 AUTO SET UP button

When using computer signal input, automatically sets the POSITION and CLOCK/PHASE to optimum values.

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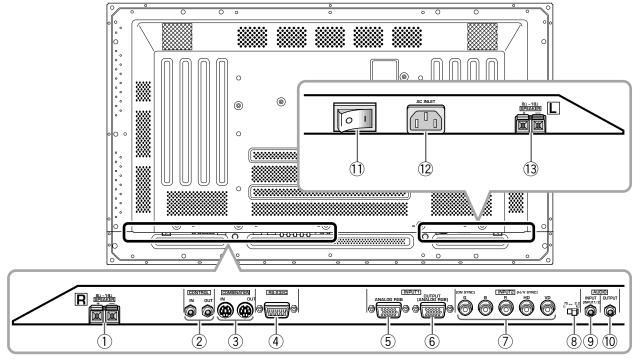
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PLASMA DISPLAY [PDP-503CMX, PDP-503MXE]

■ CONNECTION PANEL



The plasma display is provided with 2 video input connectors, 1 video output connector, audio input/output jacks and speaker terminals.

There are also CONTROL IN/OUT jacks for connection of PIONEER components with the mm mark.

When this video card is installed on a plasma display, an additional three sets of video input connectors are provided (total five), together with one additional video output connector (total two).

① SPEAKER (R) terminal

For connection of an external right speaker. Connect a speaker whose impedance is 8 -16 Ω_{\cdot}

② CONTROL IN/OUT (monaural mini jacks)

For connection of PIONEER components that bear the mark. Making CONTROL connection enables control of the plasma display as a component in a system.

③ COMBINATION IN/OUT

DO NOT MAKE ANY CONNECTIONS TO THESE TERMINALS.

These terminals are used in the factory setup.

4 RS-232C

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DO NOT MAKE ANY CONNECTIONS TO THIS TERMINAL.

This terminal is used in the factory setup.

(5) INPUT1 (mini D-sub 15 pin)

For connection of components that have RGB or component output jacks such as a personal computer, DVD player, or external RGB decoder. Make sure that the connection made corresponds to the format of the signal output from the connected component.

6 OUTPUT (INPUT1) (mini D-sub 15 pin)

Use the OUTPUT (INPUT1) connector to output the video signal to an external monitor or other component. Note: The video signal will not be output from the OUTPUT (INPUT1) connector when the main power of this display is off or in standby mode.

⑦ INPUT2 (BNC jacks)

For connection of components that have RGB or component output jacks such as a personal computer, DVD player, or external RGB decoder. Make sure that the connection made corresponds to the format of the signal output from the connected component.

Synchronizing signal impedance selector switch Depending on the connections made at INPUT2, it may be necessary to set this switch to match the output impedance of the connected component's synchronization

signal.

When the output impedance of the component's synchronization signal is above 75 W, set this switch to the 2.2 kW position.

9 AUDIO INPUT (Stereo mini jack)

Use to obtain sound when INPUT1, INPUT2 or INPUT5 is

Connect this jack to the audio output connector of the device connected to the plasma display's INPUT1 or INPUT2, or to the audio output connector of the device connected to the video card's INPUT5.

10 AUDIO OUTPUT (Stereo mini jack)

Use to output the audio of the selected source component connected to the plasma display to an AV amplifier or similar component.

11 MAIN POWER switch

Use to switch the main power of the plasma display on and off.

12 AC INLET

A power cable is furnished with the plasma display; connect one end of the power cable to this connector, and the other end to a standard AC power source.

13 SPEAKER (L) terminal

For connection of an external left speaker. Connect a speaker that has an impedance of 8 -16 Ω .

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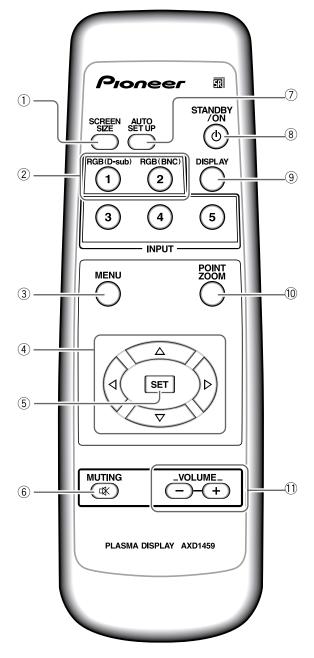
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1) SCREEN SIZE button

Press to select the screen size.

② INPUT buttons

Use to select the input.

3 MENU button

Press to open and close the on-screen menu.

4 ADJUST (▲/▼/►/◄) buttons

Use to navigate menu screens and to adjust various settings on

Usage of cursor buttons within operations is clearly indicated at the bottom the on-screen menu display.

5 SET button

Press to adjust or enter various settings on the unit.

6 MUTING button Press to mute the volume.

7 AUTO SET UP button

When using computer signal input, automatically sets the POSITION and CLOCK/ PHASE to optimum values.

® STANDBY/ON button

Press to put the unit in operation or standby mode.

9 DISPLAY button

Press to view the unit's current input and setup mode.

10 POINT ZOOM button

Use to select and enlarge one part of the screen.

① VOLUME (+/-) buttons

Use to adjust the volume.

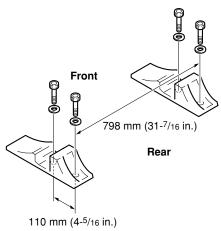
PDP-503CMX

■ INSTALLATION OF THE UNIT

A Installation using the supplied display stand

Be sure to fix the supplied stand to the installation surface. Use commercially available M8 bolts that are 25 mm longer than the thickness of the installation surface.

1. Fix the supplied stand to the installation surface at each of the 4 prepared holes using commercially available M8 bolts.



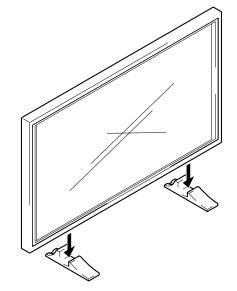
2. Set this unit in the stand.

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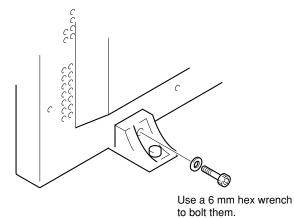
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3. Fix this unit using the supplied washer and bolt.

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A CAUTION

Because this unit weighs about 88 lbs 3 oz (about 40 kg) and the lack of depth makes it fairly unstable, please use 2 people or more when packing, carrying

PDP-503CMX

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Installation using the optional PIONEER stand or installation bracket

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 Please be sure to request installation or mounting of this unit or the installation bracket by an installation specialist or the dealer where purchased.

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- When installing, be sure to use the bolts provided with the stand or installation bracket.
- For details concerning installation, please refer to the instruction manual provided with the stand or installation bracket.

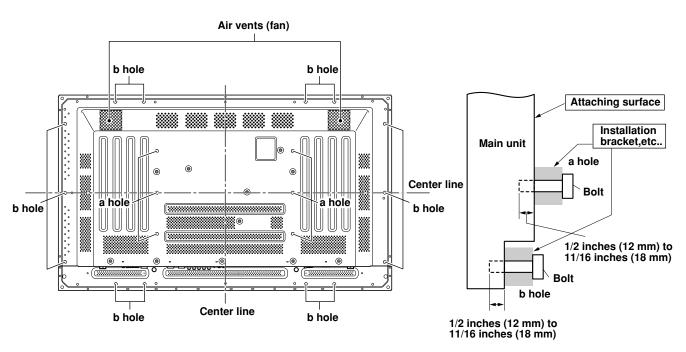
Installation using accessories other than the PIONEER stand or installation bracket (sold separately)

- When possible, please install using parts and accessories manufactured by PIONEER. PIONEER will not he held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.
- For custom installation, please consult the dealer where the unit was purchased, or a qualified installer.

Wall-mount installation of the unit

This unit has been designed with bolt holes for wall-mount installation, etc.. The installation holes that can be used are shown in the diagram below.

- Be sure to attach in 4 or more locations above and below, left and right of the center line.
- Use bolts that are long enough to be inserted 1/2 inch (12 mm) to 11/16 inch (18 mm) into the main unit from the attaching surface for both a holes and b holes.
 Refer to the side view diagram below.
- As this unit is constructed with glass, be sure to install it on a flat, unwarped surface.



Rear view diagram

Side view diagram



To avoid malfunction, overheating of this unit, and possible fire hazard, make sure that the vents on the main unit are not blocked when installing. Also, as hot air is expelled from the air vents, be careful of deterioration and dirt build up on rear surface wall, etc..

ACAUTION

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Please be sure to use an M8 (Pitch = 1.25 mm) bolt. (Only this size bolt can be used.)

ACAUTION

Because this unit weighs about 88 lbs 3 oz (about 40 kg) and the lack of depth makes it fairly unstable, please use 2 people or more when packing, carrying or installing.

ACAUTION

This unit incorporates a thin design. To ensure safety if vibrated or shaken, please be sure to take measures to prevent the unit from tipping over.

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